PB81-244188

Water Resources Data for Idaho, Water Year 1980
Volume 1: Great Basin and Snake River Basin above King Hill

(U.S.) Geological Survey
Boise, ID

Jun 81

U.S. Department of Commerce
National Technical Information Service
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U.S. DEPARTMENT OF THE INTERIOR
March 3, 1849

Water Resources Data for Idaho

Volume 1. Great Basin and Snake River Basin above King Hill

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT ID-80-1

WATER YEAR 1980

Prepared in cooperation with the State of Idaho
and with other agencies

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INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA 22161

CALENDAR FOR WATER YEAR 1980

1979

OCTOBER

S	M	T	W	T	F	S
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NOVEMBER

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1980

JANUARY

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AUGUST

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SEPTEMBER

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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

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and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For information on the water program in Idaho write to
District Chief, Water Resources Division
U.S. Geological Survey
Box 036, Federal Building
550 West Fort Street
Boise, Idaho 83724

1981

Preface

This report was prepared by personnel of the Idaho district of the Water Resources Division of the U.S. Geological Survey under the supervision of E. F. Hubbard, District Chief, and J. W. Wark, Acting Regional Hydrologist, Western Region. It was done in cooperation with the State of Idaho and with other agencies.

This report is one of a series issued by state. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and R. J. Dingman, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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Water resources data for the 1980 water year for Idaho consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report in two volumes contains discharge records for 192 gaging stations; stage only records for 2 gaging stations; stage only for 11 lakes and reservoirs; contents only for 16 lakes and reservoirs; water quality for 85 gaging stations, 43 partial-record stations, 196 wells, and 5 precipitation sites; and water levels for 366 observation wells. Also included are data for 56 crest-stage partial-record stations. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Idaho.

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(T) WATER TEMPERATURE, (E) ELEVATION OR CONTENTS, (S) SEDIMENT

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WATER RESOURCES DATA FOR IDAHO, 1980

INTRODUCTION

Water resources data for the 1980 water year for Idaho consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; and water levels and water quality of ground water. This report in two volumes contains discharge records for 192 gaging stations; stage only records for 2 gaging stations; stage only for 11 lakes and reservoirs; contents only for 16 lakes and reservoirs; water quality for 85 gaging stations, 43 partial-record stations, 196 wells, and 5 precipitation sites; and water levels for 366 observation wells. Also included are data for 56 crest-stage partial-record stations. Additional water data were collected at various sites, not involved in the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Idaho.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased fr Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records. Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published as an official Survey report on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report ID-80-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Idaho have had cooperative agreements for the systematic collection of streamflow records since 1909, for ground-water levels since 1946, and for water-quality records since 1965. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Idaho Department of Water Resources, C. S. Allred, Director.

Idaho Department of Transportation, Division of Highways,
E. D. Tisdale, P.E., State Highway Administrator.

Bear River Commission, W. N. Jibson, Chairman.

Assistance in the form of funds or services was given by the Water and Power Resources Service (formerly Bureau of Reclamation), U.S. Department of the Interior, in collecting records for 20 gaging stations; Corps of Engineers, U.S. Army, in collecting records for 22 gaging stations; U.S. Department of State in collecting records for 9 gaging stations and one water-quality station; Environmental Protection Agency in collecting records for 11 water-quality stations; Bonneville Power Administration, U.S. Department of Interior, in collecting records for four gaging stations; Bureau of Land Management, U.S. Department of the Interior, in collecting records for four gaging stations; U.S. Department of Agriculture, Soil Conservation Service, in collecting records for three gaging stations, and Forest Service, in collecting records for one gaging station; and by the Bureau of Indian Affairs, U.S. Department of the Interior, in collecting records for one gaging station published in this report.

The following organizations aided in collecting records:

Water Districts 01, 31, 33, 34, 37, 37N, and 65K; Oakley Canal Co.; Idaho Power Co.; Washington Water Power Co.; Utah Power & Light Co.; and Salmon River Canal Co.

Organizations that supplied data are acknowledged in station descriptions.

ACKNOWLEDGMENTS

Idaho district personnel who contributed significantly to the collection and preparation of the data in this report were: H. A. Ray, chief, hydrologic data section, assisted by R. W. Harper, C. M. Bennett, S. A. Gutenberger, J. R. Spofford, H. G. Sisco, R. W. Luscombe, E. L. Young, S. C. Cordes, T. K. Edwards, D. K. O'Dell, and L. K. Channel.

HYDROLOGIC CONDITIONS

Streamflow in October was in the deficient range for the upper Snake River basin and the smaller basins of south-central Idaho. Deficient flow continued into March before the seasonal increase of flow reached the median range. Most streams continued in the median range for the remainder of the year.

Reservoir storage for irrigation, below average during the early part of the year, increased to average by January and was well above average by the end of the year.

On September 30, 1980, storage in eight of the larger reservoirs was 2,515,000 acre-feet, compared with 1,648,000 acre-feet on September 30, 1979, or with the 1957-58 average of 2,093,000 acre-feet.

Monthly and annual discharge are compared with median discharge at two representative gaging stations in figure 4.

Changes in ground-water levels from spring 1979 to spring 1980 in selected observation wells are shown in figure 1. These wells were selected to monitor long-term changes in water levels in different areas of Idaho.

Figure 11 shows locations of observation wells in south-central Idaho. Ground-water levels in the water-table aquifer in Big Wood River valley declined 0.6 foot in the upper part of the valley and were 2.1 feet lower in the lower part of the valley. Water levels in the artesian aquifer were 4.4 feet lower in the western part of the valley and 0.9 foot lower in the southern part of the valley.

Water levels in Big Lost River valley adjacent to the Snake River Plain aquifer declined 1.3 feet in the upper end and 1.5 feet in the lower end of the valley. Water levels in Little Lost River valley showed no appreciable change in the upper end but declined 2.4 feet near Howe and 0.7 feet in the lower end.

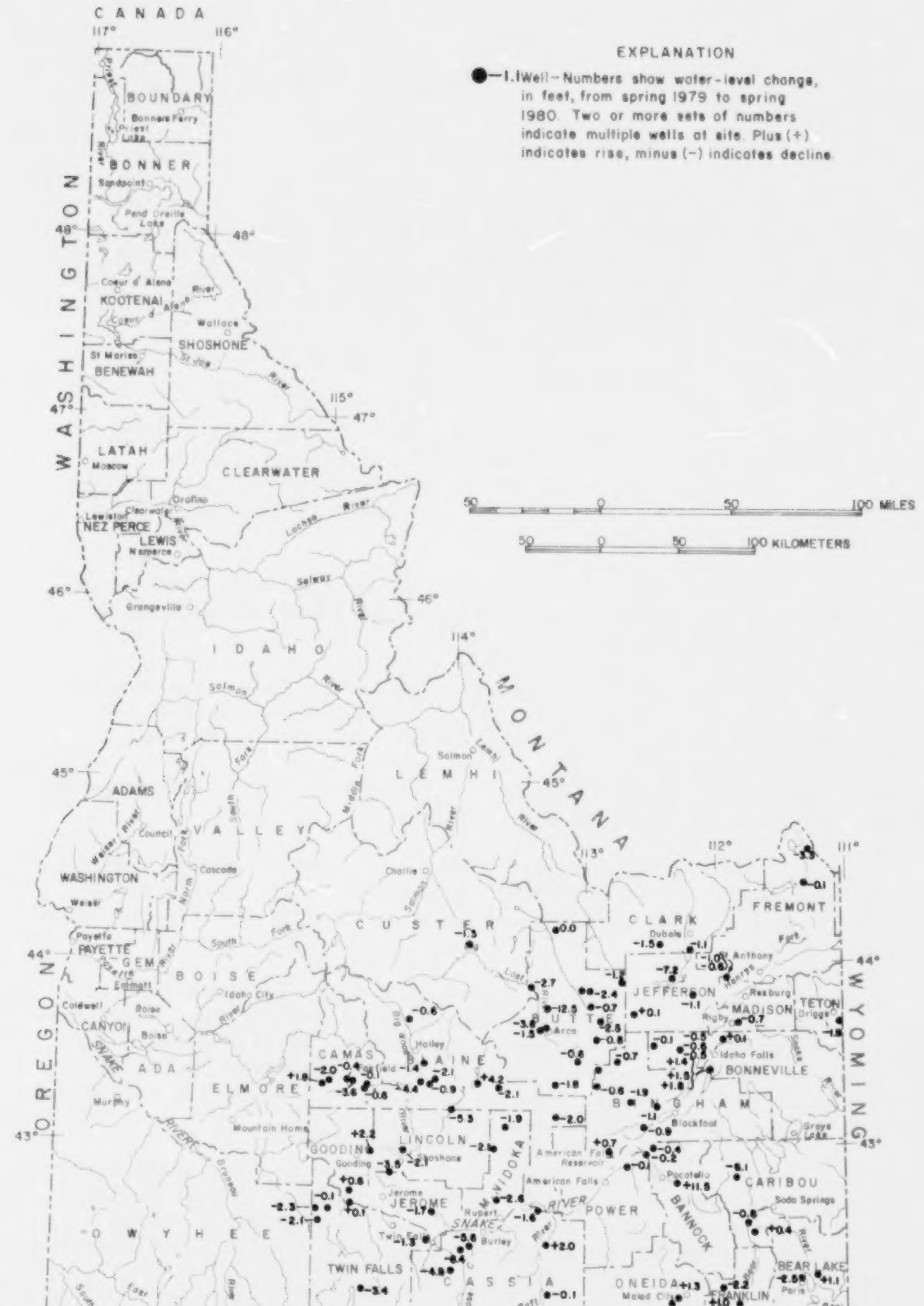
EXPLANATION
●—1.1 Well—Numbers show water-level change, in feet, from spring 1979 to spring 1980. Two or more sets of numbers indicate multiple wells at site. Plus (+) indicates rise, minus (−) indicates decline.
50 0 50 100 MILES
50 0 50 100 KILOMETERS
CANADA
WASHINGTON
MONTANA
WYOMING
OREGON
NEVADA
UTAH
117°
116°
115°
114°
113°
112°
111°
48°
47°
46°
45°
44°
43°
42°
BOUNDARY
BONNER
KOOTENAI
SHOSHONE
BENEWAH
LATAH
CLEARWATER
NEZ PERCE
LEWIS
IDAHO
ADAMS
VALLEY
LEMHI
WASHINGTON
PAYETTE
GEM
BOISE
CUSTER
CLARK
FREMONT
JEFFERSON
MADISON
TETON
BUTTE
CANYON
ADA
CAMAS
BLAINE
ELMORE
BONNEVILLE
BINGHAM
GOODING
LINCOLN
MINIDOKA
POWER
CARIBOU
BANNOCK
JEROME
OWYHEE
TWIN FALLS
CASSIA
ONEIDA
FRANKLIN
BEAR LAKE
Bonners Ferry
Sandpoint
Coeur d' Alene
Wallace
St Maries
Moscow
Lewiston
Orofino
Nezperce
Grangeville
Salmon
Challis
Council
Cascade
Weiser
Payette
Emmett
Idaho City
Caldwell
Boise
Hailey
Arco
Dubois
St Anthony
Rexburg
Rigby
Driggs
Idaho Falls
Blackfoot
Mountain Home
Murphy
Gooding
Shoshone
Jerome
Twin Falls
Rupert
Burley
American Falls
Pocatello
Soda Springs
Malad City
Preston
Paris
Snake River
Salmon River
Clearwater River
Lochsa River
Selway River
Bear River
Grays Lake
Bear Lake
American Falls Reservoir

Figure 1.-- Water level changes in selected observation wells.

Water levels in the Camas Prairie (Fairfield area) were about 2.3 feet lower in the artesian aquifer and declined about 0.5 foot in the water-table aquifer. In the Snake Plain aquifer, near the heavily pumped Rupert-Minidoka area, water levels declined about 2.2 feet. Water levels in the Jerome, Eden, and Shoshone areas, which are recharged largely from infiltration of water in unlined irrigation canals and ditches, were 1.7 to 3.5 feet lower. Near Gooding and south of Wendell, water levels rose about 2 feet. Water levels in the tributary valleys south of the Snake River declined about 1 to 8 feet.

Figure 12 shows locations of observation wells in southeast Idaho. In the area between American Falls and Idaho Falls, water levels were 0.9 and 1.9 feet lower. In a small area between Idaho Falls and Shelley, water levels rose 0.1 to 1.8 feet. Water levels continued their downward trend in the central part of the Snake Plain aquifer and declined 0.1 to 2.5 feet. Water levels in the Portneuf River valley declined 0.4 to 6.1 feet, except west of Inkom, where water levels rose 11.5 feet. Water levels in the Mud Lake area continued a downward trend since 1974 and declined 1.1 to 7.2 feet. Water levels in the Island Park area responded to precipitation and were 0.1 to 3.3 feet lower. In the Henrys Fork area, water levels declined about 1 foot.

Water levels in the Malad Valley and Bear River valley showed no significant change.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report are defined below. See also the table for converting English units to International System of units (SI) on the inside back cover.

Acre-foot (ac-ft,AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is the primary energy donor in cellular life process. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on m-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Recoverable from bottom material the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved that material in a representative water sample which passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

Where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per gram (ug/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Micrograms per liter (UG/L,ug/l) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L,mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/l, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Seal Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meters (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PC,pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioacitivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton in the plant of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Primary production is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [mg $C/(m^2 \cdot$time for periphyton and macrophytes and mg $C/(m^3 \cdot$time)] for phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [mg $O_2/(m^2 \cdot$time) for periphyton and macrophytes and mg $O_2/(m^3 \cdot$time)] for phytoplankton are the units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Runoff in inches (IN,in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended, recoverable the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Suspended, total the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Total the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total, recoverable the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures would be required of all laboratores performing such analyses because different digestion procedures are likely to produce different analytical results.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reaction with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrates refers to any naturally occurring emersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The use of artificial substrates simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45 micrometer filter.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexagenia*
Species	*Hexagenia limbata*

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1979, is called the "1979 water year."

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 13317000, which appears just to the left of the station name, includes the 2-digit part number "13" plus the 6-digit downstream order number "317000."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 2 below.

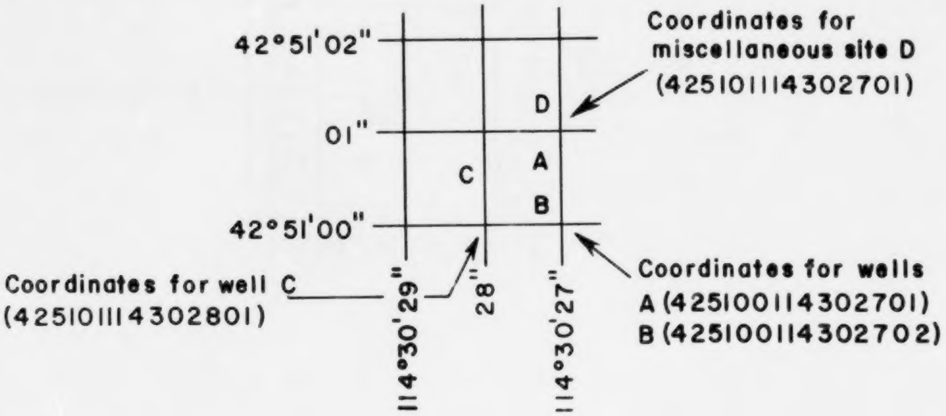
42°51'02"
01"
42°51'00"
Coordinates for miscellaneous site D (425101114302701)
D
A
B
C
Coordinates for well C (425101114302801)
114°30'29"
28"
114°30'27"
Coordinates for wells
A (425100114302701)
B (425100114302702)

Figure 2.--System for numbering wells and miscellaneous sites (latitude and longitude).

Idaho Well-Numbering System

The well-numbering system used by the Geological Survey in Idaho indicates the location of wells within the official rectangular subdivisions of the public lands, with reference to the Boise base line and meridian. The first segment of a well number indicates the township, the seond the range, and the third the section in which the well is situated. The letters following the section number indicate the well location within the section: The first letter denotes the 160-acre (65-hm^2) tract, the second the 40-acre (16-hm^2) tract, the third the 10-acre (4.0-hm^2) tract in which the well occurs. The letters are assigned in a counterclockwise direction, beginning in the northeast quarter (fig. 3). The last numberal is a serial number assigned when the well is inventoried. Thus, well 07S-17E-06ACA1 is in the NE¼SW¼NE¼ sec. 6, T. 7 S., R. 17 E., and is the first well inventoried in that tract.

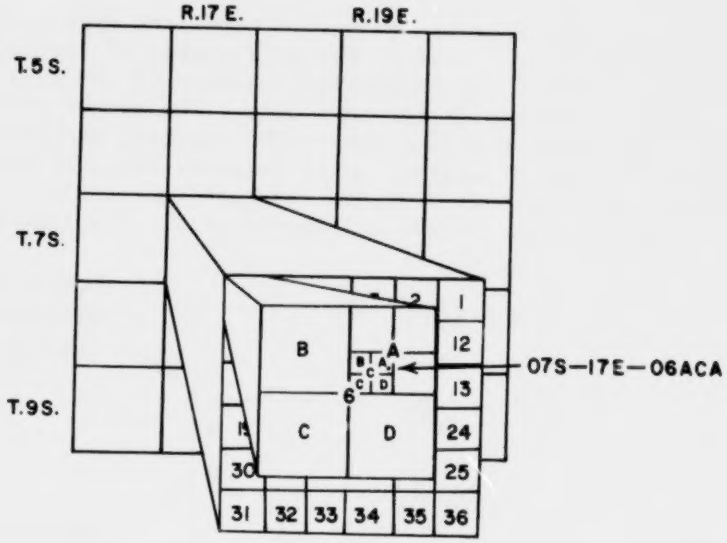

Figure 3.--Diagram showing Idaho well-numbering system.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes and reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and the yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations, the stage-discharge relation is affected by changing stage; at these stations, the rate of change in stage is used as a factor in computing discharge.

At some gaging stations, the stage-discharge relation is affected by ice during the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations, there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute the daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals, a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs, a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years, only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gages, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations, information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents). it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations, peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following EXTREMES, for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN") or in acre-feet (line headed "AC-FT"). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs, the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations.

The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Records of Discharge Collected by Agencies other than the Geological Survey

Records of discharge not published by the Geological Survey were collected in the current water year by other State and Federal agencies. The National Water Data Exchange, Water Resources Division, U.S. Geological Survey, National Center, Reston, VA 22092, maintains an index of such sites. Information on records available at specific sites can be obtained upon request.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the Data

Ground-water level data from the Statewide network of observation wells are published herein. This network is designed so that the fewest number of wells are used to obtain the most significant data in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. See figure 2.

Measurements are made in many types of wells under varying conditions of access and at different temperatures, hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet with reference to either National Geodetic Vertical Datum of 1929 (NGVD) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot.

Aquifer Names

The names of aquifers and their geologic ages adopted for use in Idaho are from the stratigraphic names listed in the Idaho section of the U.S. Geological Survey Bulletins 1056-B, 1200, and 1395-A. Names will be modified where necessary as official changes in stratigraphic nomenclature occur.

If a formal name has not been assigned to the aquifer, the lithology and its age are used to designate the water-bearing unit. Although some wells are supplied by more than one aquifer, only the major aquifer penetrated by the well is given in the well description.

Well Descriptions

For each well, the well description includes, if available, the following information: Latitude-longitude number, Idaho well number, owner, method of construction, use of well, type of well (artesian or water table), formal aquifer name or lithology and geologic age, diameter of casing, depth of well, depth of perforations or screen, altitude of land-surface datum, remarks of unusual conditions affecting the water level, acknowledgment of outside persons or agencies contributing data, and a description of the measuring point. The depth of the well at the time it was originally inventoried is given in the well description. If the well has been deepened or filled in, the new depth and date the change was discovered are noted following the notation of land-surface datum.

When a well is added to the State observation-well network, all its prior water-level measurements are included with the current year tabulation.

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

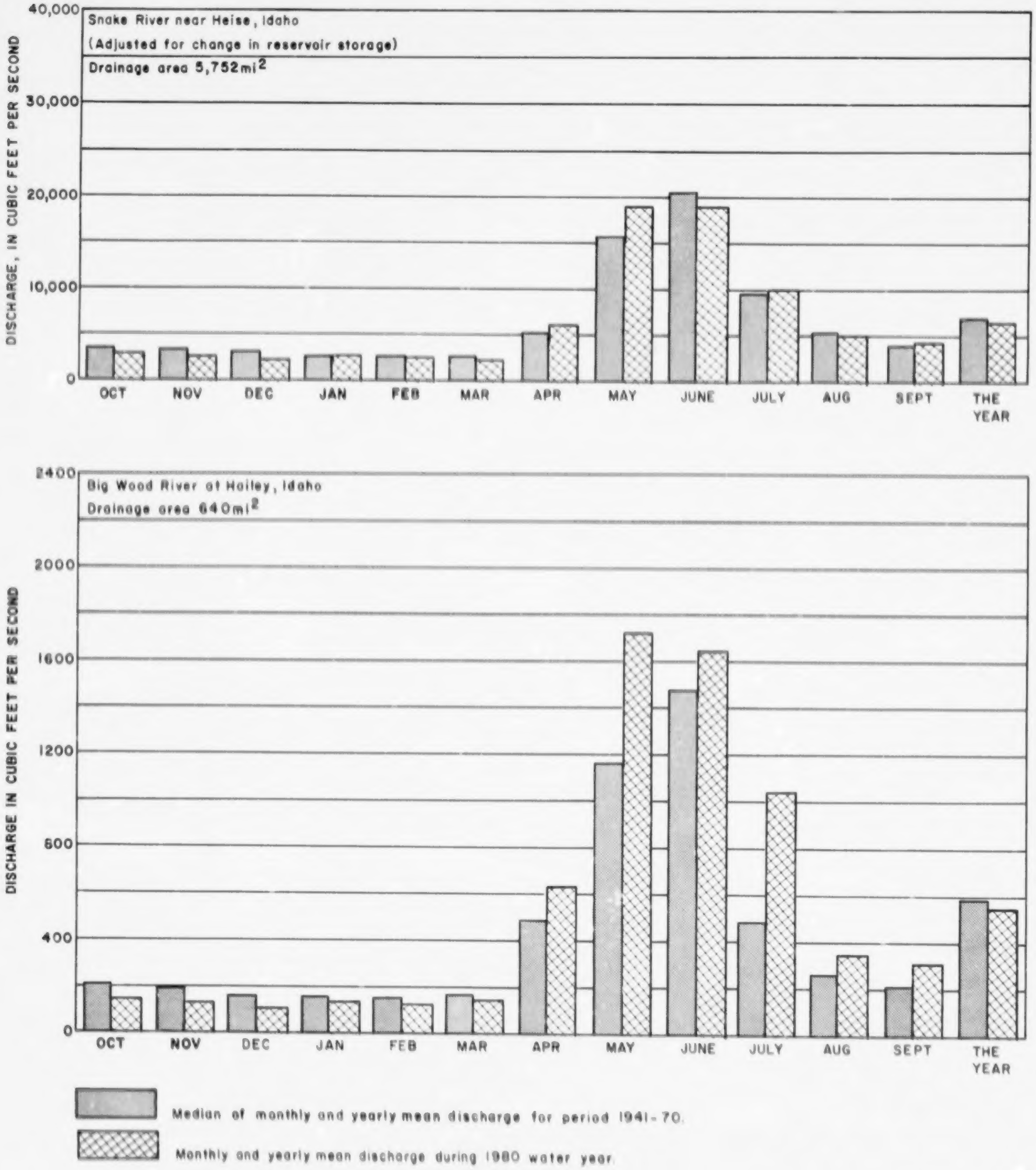

FIGURE 4.--Discharge during 1980 water year compared with median discharge for period 1941-70 for two representative gaging stations.

EXPLANATION

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PART 13

River basin boundary and number

▲
321500

Gaging station and number

Inverted symbol indicates water-quality station

▼

Chemical-measurement site

▼

Temperature-measurement site

▼

Biological-measurement site

▼

Sediment-measurement site

▲

Crest-stage measurement site

51N-04W-18
●

Observation well and number

This explanation is for all four maps in this volume. Shaded areas on figure 5 indicate areas of detailed study. Data for these areas are listed in this report, but individual collection sites are not shown.

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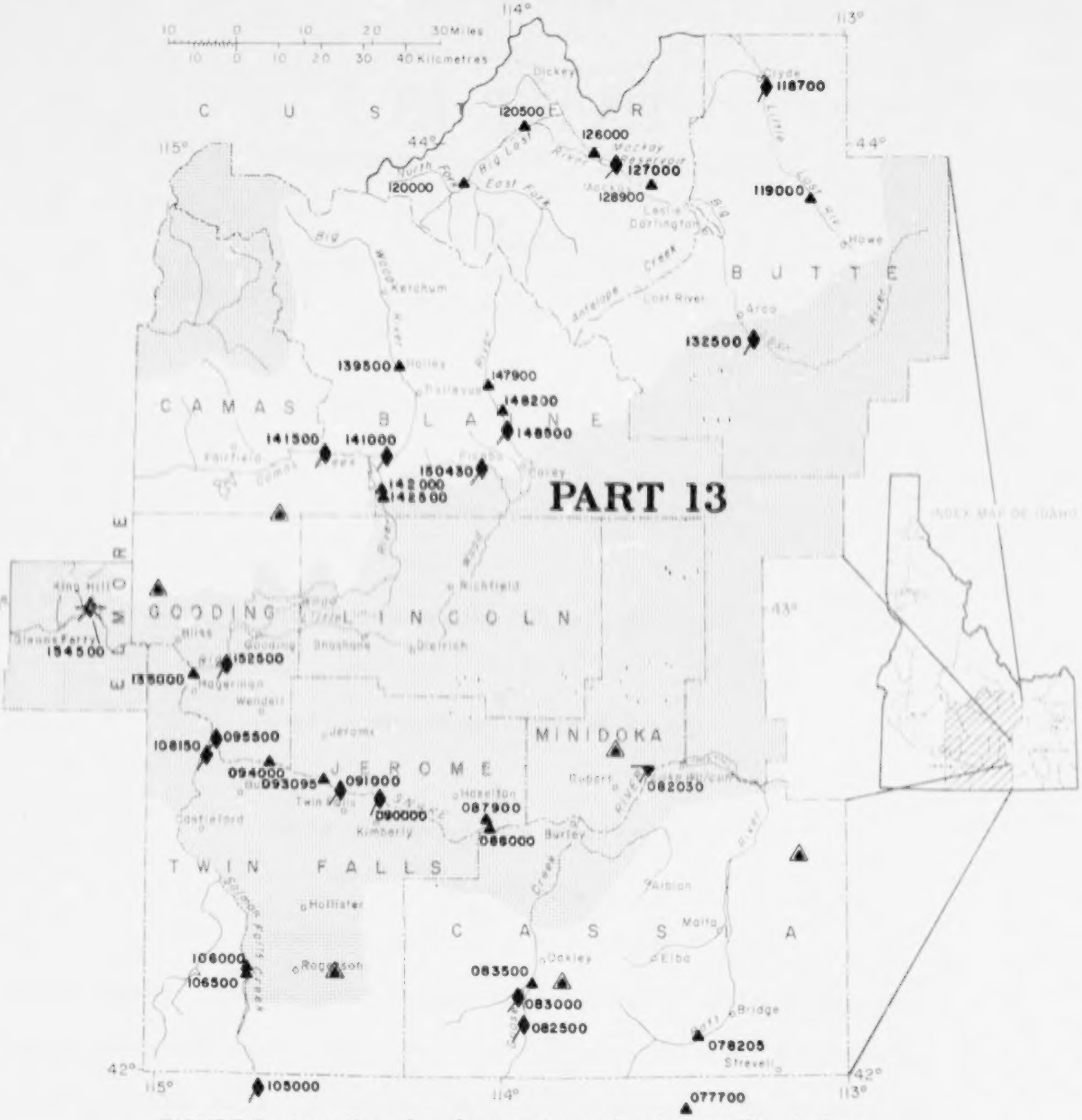
PART 13


114°
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118700
120500
126000
Mackay Reservoir
127000
128900
Mackay
120000
North Fork
Big Lost River
East Fork
119000
Little Lost River
Leslie
Darlington
Big
Howe
Big Wood River
Ketchum
Antelope Creek
Lost River
B U T T E
Arco
132500
139500
Hailey
147900
Bellevue
148200
148500
C A M A S
B L A I N E
141500
141000
Fairfield
Camas Creek
150430
Picabo
Carey
142000
142500
King Hill
Glenns Ferry
154500
E L M O R E
43°
43°
G O O D I N G
L I N C O L N
Richfield
Little Wood River
Bliss
Gooding
Shoshone
Dietrich
152500
135000
Hagerman
Wendell
Jerome
M I N I D O K A
108150
095500
094000
093095
091000
J E R O M E
Rupert
082030
Twin Falls
090000
Hazelton
087900
Castleford
Kimberly
086000
Burley
T W I N F A L L S
Salmon Falls Creek
Hollister
Albion
Goose Creek
Raft River
C A S S I A
Malta
106000
106500
Rogerson
083500
Oakley
Elba
083000
082500
Bridge
078205
Strevell
42°
42°
115°
105000
114°
113°
077700
INDEX MAP OF IDAHO

FIGURE 5.--Location of surface-water and water-quality stations in south-central Idaho.

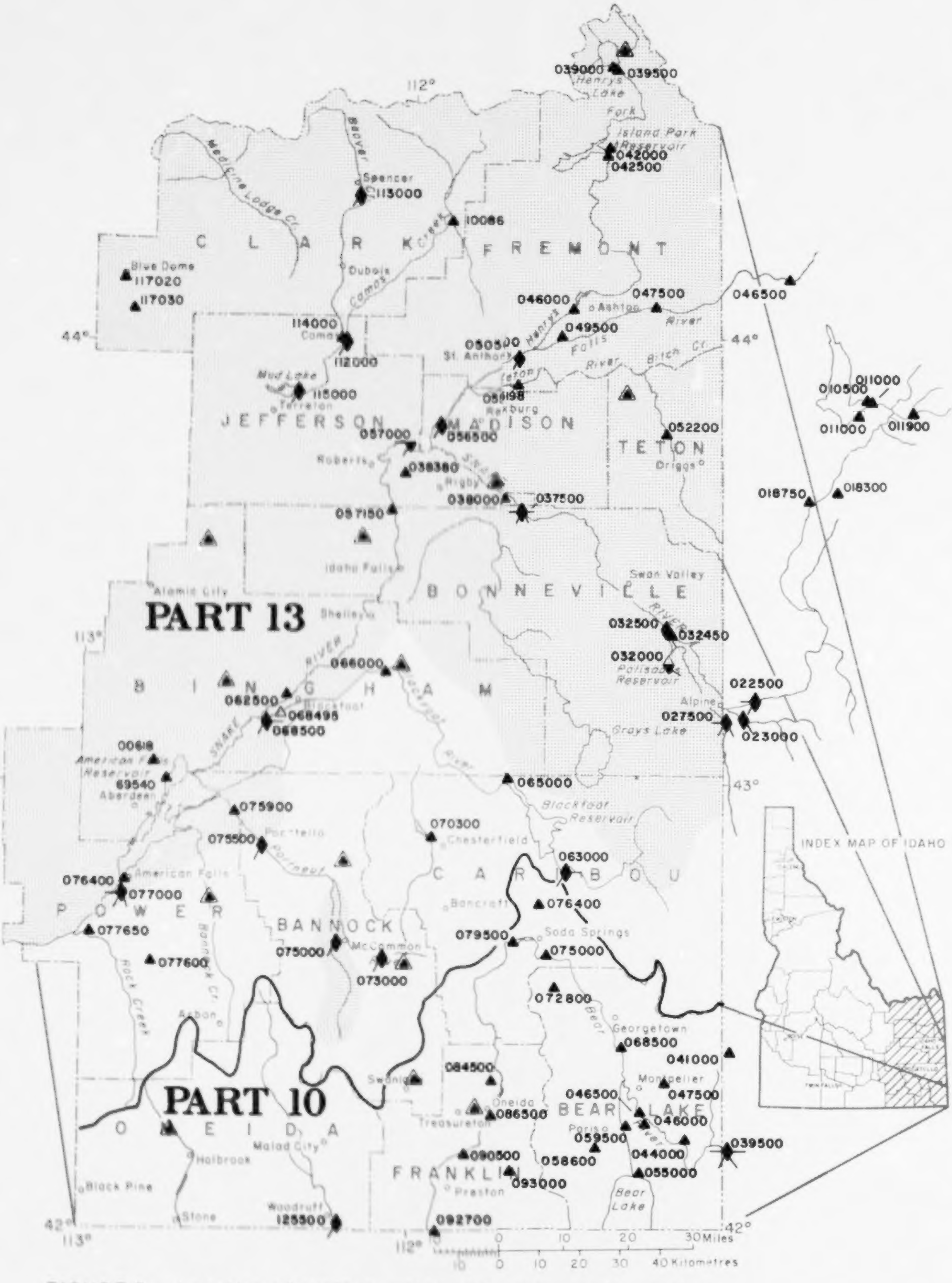
039000
039500
Henrys Lake
Fork
Island Park Reservoir
042000
042500
112°
Beaver
Medicine Lodge Cr.
Spencer
113000
10086
Camas Creek
CLARK
FREMONT
Dubois
Blue Dome
117020
117030
046500
046000
Ashton
047500
049500
River
Henrys
050500
St. Anthony
Falls
River
Birch Cr.
44°
114000
Camas
112000
Mud Lake
115000
Terreton
Teton
056198
Rexburg
JEFFERSON
MADISON
057000
056500
052200
TETON
Driggs
Roberts
038380
Rigby
038000
037500
057150
Idaho Falls
Atomic City
BONNEVILLE
Swan Valley
PART 13
Shelley
113°
River
032500
032450
032000
Palisades Reservoir
066000
BINGHAM
062500
Blackfoot
068495
068500
Blackfoot
River
022500
Alpine
027500
023000
Grays Lake
00618
American Falls Reservoir
Snake
69540
Aberdeen
43°
065000
Blackfoot Reservoir
075900
070300
Chesterfield
075500
Pocatello
Portneuf
063000
076400
American Falls
077000
POWER
CARIBOU
Bancroft
076400
077650
Bannock Cr.
BANNOCK
075000
McCammon
073000
079500
Soda Springs
075000
077600
Rock Creek
072800
Bear
Arbon
Georgetown
068500
041000
Swanlake
084500
Montpelier
047500
PART 10
Oneida
086500
Treasureton
046500
BEAR LAKE
046000
ONEIDA
Malad City
Paris
059500
039500
Holbrook
090500
058600
044000
055000
FRANKLIN
093000
Preston
Black Pine
Bear Lake
Stone
Woodruff
125500
092700
42°
113°
112°
10 0 10 20 30 Miles
10 0 10 20 30 40 Kilometres
42°
010500
011000
011000
011900
018750
018300
INDEX MAP OF IDAHO

FIGURE 6.--Location of surface-water and water-quality stations in southeast Idaho.

10039500 BEAR RIVER AT BORDER, WY

LOCATION.--Lat 42°12'40", long 111°03'11", in NE1/4NE1/4 sec.15, T.14 S., R.46 E., Bear Lake County, Idaho, Hydrologic Unit 16010102, on left bank 0.2 mi (0.3 km) west of Wyoming-Idaho State line, 0.5 mi (0.8 km) west of Border, and 2.1 mi (3.4 km) upstream from Thomas Fork.

DRAINAGE AREA.--2,486 mi² (6,439 km²).

PERIOD OF RECORD.--October 1937 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,051.63 ft (1,844.537 m) National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by regulation by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--43 years, 422 ft³/s (12.0 m³/s), 305,700 acre-ft/yr (377 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s (104 m³/s) May 11, 1952, gage height, 8.89 ft (2.710 m); minimum, 24 ft³/s (0.68 m³/s) Apr. 29, 30, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,700 ft³/s (76.5 m³/s) May 10, gage height, 8.10 ft (2.469 m); minimum, 78 ft³/s (2.21 m³/s) Oct. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	162	90	110	90	450	300	2260	1330	725	269	178
2	92	153	95	120	110	400	286	2350	1350	769	269	185
3	92	154	100	120	140	380	279	2380	1570	818	279	187
4	94	154	110	120	160	380	279	2350	1640	818	269	181
5	94	158	120	120	140	360	288	2350	1660	833	250	176
6	95	156	130	120	150	360	331	2420	1680	1010	247	189
7	95	151	140	110	160	370	368	2530	1660	924	274	180
8	94	149	150	110	130	380	339	2580	1630	872	255	181
9	94	156	150	120	110	380	327	2670	1590	849	245	180
10	85	139	140	130	100	370	324	2680	1560	830	243	185
11	84	156	120	100	100	360	355	2670	1610	818	238	194
12	82	140	100	100	100	350	381	2610	1630	780	236	215
13	84	140	100	110	120	360	411	2580	1630	715	234	199
14	81	140	110	150	130	350	478	2440	1610	694	232	183
15	80	140	110	200	140	400	725	2330	1550	743	234	176
16	82	140	110	500	140	465	888	2290	1520	697	255	174
17	85	150	120	800	140	503	1030	2350	1480	632	269	174
18	81	176	120	800	140	428	1220	2350	1420	612	255	179
19	95	160	120	750	160	410	1360	2300	1390	558	257	174
20	151	150	120	450	210	370	1450	2250	1370	574	276	172
21	163	150	120	250	300	363	1450	2220	1320	539	262	171
22	174	140	130	230	450	341	1600	2180	1280	507	234	169
23	198	140	130	240	550	336	1780	2100	1260	507	194	167
24	180	140	120	250	600	329	1970	2020	1160	478	176	162
25	172	150	110	260	700	365	2130	1990	1110	443	172	174
26	171	160	120	270	750	355	2210	1900	952	419	180	176
27	163	130	110	200	800	329	2300	1770	833	394	183	178
28	156	110	100	150	600	310	2230	1670	754	348	178	180
29	153	95	100	130	500	295	2170	1510	733	329	176	181
30	151	90	95	110	---	300	2150	1440	704	317	172	183
31	153	---	95	90	---	307	---	1380	---	305	174	---
TOTAL	3666	4329	3585	7320	7920	11456	31409	68920	40986	19857	7187	5403
MEAN	118	144	116	236	273	370	1047	2223	1366	641	232	180
MAX	198	176	150	800	800	503	2300	2680	1680	1010	279	215
MIN	80	90	90	90	90	295	279	1380	704	305	172	162
AC-FT	7270	8590	7110	14520	15710	22720	62300	136700	81300	39390	14260	10720

CAL YR 1979 TOTAL 85993 MEAN 236 MAX 747 MIN 80 AC-FT 170600
WTR YR 1980 TOTAL 212038 MEAN 579 MAX 2680 MIN 80 AC-FT 420600

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10039500 BEAR RIVER AT BORDER, WY--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1965 to September 1976, January 1978 to current year.
WATER TEMPERATURES: October 1965 to September 1976, January 1978 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 1,580 micromho/cm Dec. 27, 1975; minimum daily, 312 micromho/cm Apr. 3, 1969.
WATER TEMPERATURES: Maximum, 23.5°C Aug. 14, 1980; minimum, 0.0°C on many days during winter periods.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 670 micromho/cm Mar. 20, 29, 31; minimum daily, 319 micromho/cm Feb. 22.
WATER TEMPERATURES: Maximum, 23.5°C Aug. 14; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)
OCT											
17...	1605	84	560	--	8.5	--	--	--	--	--	--
25...	0840	172	585	8.1	5.0	20	13	9.3	K24	440	270
NOV											
15...	1730	144	560	--	.5	--	--	--	--	--	--
29...	0815	--	650	8.0	.0	7	13	11.6	23	--	320
DEC											
19...	0820	--	630	8.0	.5	6	2.7	11.2	4	--	280
21...	1035	120	620	--	.0	--	--	--	--	--	--
JAN											
23...	0900	--	520	7.6	.0	35	40	10.2	K4	310	230
FEB											
07...	1335	163	610	--	.0	--	--	--	--	--	--
28...	0900	--	395	7.5	.0	25	30	9.1	K30	330	170
MAR											
19...	1530	410	550	--	2.0	--	--	--	--	--	--
24...	1430	--	600	7.8	2.5	200	64	10.8	3	130	250
APR											
18...	1450	1240	520	--	9.0	--	--	--	--	--	--
24...	1015	--	490	7.6	7.0	3300	480	--	--	--	200
MAY											
02...	1330	2330	500	--	10.5	--	--	--	--	--	--
12...	1200	--	580	7.8	8.0	25	14	8.0	50	80	230
JUN											
06...	0900	1670	600	--	12.5	--	--	--	--	--	--
11...	1130	1810	600	8.2	16.0	40	40	8.3	440	--	230
12...	1130	1810	600	8.2	16.0	--	--	--	--	--	--
19...	1020	1380	520	--	16.5	--	--	--	--	--	--
JUL											
08...	1130	826	625	8.2	17.5	25	3.4	8.4	83	32	280
24...	1720	464	580	--	20.0	--	--	--	--	--	--
AUG											
06...	1130	269	600	7.7	18.0	9	10	8.1	140	--	270
28...	1305	180	540	--	15.0	--	--	--	--	--	--
SEP											
03...	1310	209	580	7.9	16.0	--	15	8.8	K40	K13	250

K Results based on counts outside ideal colony count range.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE (MG/L AS HCO3)	CAR- BONATE (MG/L AS CO3)	ALKA- LINITY (MG/L AS CACO3)
OCT										
17...	--	--	--	--	--	--	--	--	--	--
25...	58	66	25	27	18	.7	2.4	260	0	210
NOV										
15...	--	--	--	--	--	--	--	--	--	--
29...	89	80	29	26	15	.6	2.5	300	0	230
DEC										
19...	54	71	26	24	15	.6	3.6	280	0	230
21...	--	--	--	--	--	--	--	--	--	--
JAN										
23...	33	57	22	22	16	.6	11	260	0	200
FEB										
07...	--	--	--	--	--	--	--	--	--	--
28...	32	44	15	13	14	.4	7.7	160	0	140
MAR										
19...	--	--	--	--	--	--	--	--	--	--
24...	49	57	26	32	22	.9	4.0	250	0	200
APR										
18...	--	--	--	--	--	--	--	--	--	--
24...	52	48	20	26	21	.8	4.7	210	0	150
MAY										
02...	--	--	--	--	--	--	--	--	--	--
12...	42	55	23	21	16	.6	3.5	260	0	190
JUN										
06...	--	--	--	--	--	--	--	--	--	--
11...	14	51	26	26	19	.7	2.9	250	0	220
12...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
JUL										
08...	28	62	30	30	19	.8	3.1	300	0	250
24...	--	--	--	--	--	--	--	--	--	--
AUG										
06...	49	54	27	23	15	.6	1.7	270	0	220
28...	--	--	--	--	--	--	--	--	--	--
SEP										
03...	50	64	22	23	17	.6	2.0	250	0	200

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT											
25...	78	25	.2	8.6	355	359	.48	165	.22	.080	.60
NOV											
29...	85	26	.2	10	407	398	.55	--	.30	.170	.61
DEC											
19...	78	30	.2	9.5	343	381	.47	--	.17	.110	.99
JAN											
23...	59	23	.2	12	356	329	.48	--	.54	.130	.87
FEB											
28...	33	12	.1	7.6	229	220	.31	--	1.5	.500	1.5
MAR											
24...	68	31	.1	9.9	357	349	.49	--	.08	.150	.95
APR											
24...	65	25	.2	16	295	297	.40	--	.24	.230	2.6
MAY											
12...	52	17	.1	9.6	315	296	.43	--	.05	.040	.76
JUN											
11...	43	22	.2	9.2	310	317	.42	1520	.07	.040	1.4
JUL											
08...	60	27	.2	11	361	374	.49	605	.08	.040	1.1
AUG											
06...	63	25	.2	7.7	357	342	.49	259	.02	.000	.43
SEP											
03...	70	24	.2	7.3	333	333	.45	188	.00	.000	.90

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)
OCT											
25...	.68	.03	.65	.90	4.0	.050	.15	.010	--	8.3	.4
NOV											
29...	.78	.07	.71	1.1	4.8	.050	.15	.010	9.2	--	--
DEC											
19...	1.1	.11	.99	1.3	5.6	.010	.03	.000	3.1	--	--
JAN											
23...	1.0	.00	1.3	1.5	6.8	.300	.92	.130	--	27	.9
FEB											
28...	2.0	.20	1.8	3.5	16	.210	.64	.040	19	--	--
MAR											
24...	1.1	.50	.60	1.2	5.2	.200	.61	.310	5.8	--	--
APR											
24...	2.8	1.7	1.1	3.0	13	1.300	4.0	.130	--	11	2.7
MAY											
12...	.80	.10	.70	.85	3.8	.160	.49	.040	22	--	--
JUN											
11...	1.4	.30	1.1	1.5	6.5	.240	.74	.010	16	--	--
JUL											
08...	1.1	.65	.45	1.2	5.2	.010	.03	.030	--	--	--
AUG											
06...	.43	.00	.78	.45	2.0	.050	.12	.060	--	6.6	--
SEP											
03...	.90	.04	.86	.90	4.0	.010	.03	.010	7.9	--	--

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)
OCT 25...	1	0	1	400	300	100	2	1	<1	4	4
JAN 23...	4	0	4	200	100	100	1	0	2	0	0
APR 24...	5	4	1	500	400	100	2	--	<1	20	20
AUG 06...	2	0	2	100	0	100	0	--	<1	10	0

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, DISSOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	IRON, DISSOLVED (UG/L AS FE)
OCT 25...	0	0	0	<3	6	6	0	750	--	40
JAN 23...	0	3	0	<3	12	11	1	1100	910	190
APR 24...	0	6	--	<3	130	120	6	14000	13000	1400
AUG 06...	20	3	--	<3	24	20	4	560	540	20

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	MERCURY DISSOLVED (UG/L AS HG)
OCT 25...	5	5	0	70	60	10	.0	.0	.0
NOV 29...	--	--	--	--	--	--	--	--	--
JAN 23...	6	6	0	40	30	10	.0	.0	.0
FEB 28...	--	--	--	--	--	--	--	--	--
APR 24...	35	35	0	600	520	80	.2	.2	.0
MAY 12...	--	--	--	--	--	--	--	--	--
JUL 08...	--	--	--	--	--	--	--	--	--
AUG 06...	6	3	3	90	80	10	.5	.0	.6

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	ZINC, DISSOLVED (UG/L AS ZN)
OCT 25...	0	0	0	0	0	0	10	0	10
NOV 29...	--	--	--	1	--	--	--	--	--
JAN 23...	1	0	1	0	0	0	10	5	5
FEB 28...	--	--	--	0	--	--	--	--	--
APR 24...	1	0	1	1	1	0	250	240	10
MAY 12...	--	--	--	0	--	--	--	--	--
JUL 08...	--	--	--	0	--	--	--	--	--
AUG 06...	0	0	0	0	0	0	50	30	20

10039500 BEAR RIVER AT BORDER, WY--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV 29...	0815	--	ND	--	ND	--	ND	--	ND	--
FEB 28...	0900	--	ND	--	ND	--	ND	--	ND	--
JUN 11...	1130	1810	.00	.0	.0	0	.00	.0	.00	.0
SEP 03...	1310	209	.00	.0	.0	0	.00	.0	.00	.0

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV 29...	ND	--	ND	ND	--	ND	--	ND	ND	--
FEB 28...	ND	--	ND	ND	--	ND	--	ND	ND	--
JUN 11...	.00	.0	.00	.00	.0	.00	.0	.00	.00	.0
SEP 03...	.00	.0	.00	.00	.0	.00	.0	.00	.00	.0

DATE	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)
NOV 29...	ND	--	ND	--	ND	ND	--	ND	ND	ND
FEB 28...	ND	--	ND	--	ND	ND	--	ND	ND	ND
JUN 11...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.00
SEP 03...	.00	.0	.00	.0	.00	.00	.0	.00	.00	.00

DATE	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4,5-T TOTAL (UG/L)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV 29...	ND	--	ND	ND	--	ND	--	ND	--
FEB 28...	ND	--	ND	--	--	--	--	--	--
JUN 11...	0	0	.00	.03	0	.00	0	.00	.0
SEP 03...	0	0	.00	.00	0	.04	0	.00	.0

ND Not detected.

10039500 BEAR RIVER AT BORDER, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
OCT 25...	10.8	10.0	2.76	.250	290
JUN 12...	2.21	1.89	3.72	.000	86.0
AUG 06...	1.81	1.26	.240	.000	2292
SEP 03...	10.0	9.13	.420	.090	2071

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 25...	0840	62	29	99	99
NOV 29...	0815	12	--	--	--
DEC 19...	0820	48	--	--	--
JAN 23...	0900	56	--	--	--
FEB 28...	0900	40	--	--	--
MAR 24...	1430	106	--	--	--
APR 24...	1015	1060	--	95	--
MAY 12...	1200	129	--	89	89
JUN 11...	1130	162	792	84	84
JUL 08...	1130	127	283	94	94
AUG 06...	1130	72	52	--	--
SEP 03...	1310	52	29	52	97

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	NOV 29,79 0815		MAR 24,80 1430		MAY 12,80 1200		JUN 12,80 1130	
TOTAL CELLS/ML	710		1200		910		1000	
DIVERSITY: DIVISION	1.3		1.1		1.3		1.1	
.CLASS	1.3		1.1		1.3		1.1	
..ORDER	1.3		1.4		2.1		1.8	
...FAMILY	2.2		2.8		2.8		2.3	
....GENUS	2.4		2.8		2.8		2.5	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)								
.CHLOROPHYCEAE								
..CHLOROCOCCALES								
...CHARACIACEAE								
....SCHROEDERIA	--	-	--	-	--	-	--	-
...MICRACTINIACEAE								
....GOLENKINIA	--	-	--	-	13	1	--	-
....MICRACTINIUM	--	-	--	-	--	-	--	-
...OOCYSTACEAE								
....ANKISTRODESMUS	20	3	55	5	--	-	26	3
....CHLORELLA	--	-	--	-	13	1	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-	100	10
....OOCYSTIS	--	-	--	-	--	-	--	-
...SCENEDESMACEAE								
....SCENEDESMUS	20	3	--	-	52	6	100	10
....TETRASTRUM	--	-	--	-	--	-	52	5
..VOLVOCALES								
...CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS	--	-	250#	21	78	9	--	-
...VOLVOCACEAE								
....GONIUM	--	-	--	-	210#	23	--	-
CHRYSOPHYTA								
.BACILLARIOPHYCEAE								
..CENTRALES								
...COSCINODISCACEAE								
....CYCLOTELLA	5	1	37	3	140#	16	--	-
....MELOSIRA	--	-	--	-	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-	350#	35
..PENNALES								
...CYMBELLACEAE								
....CYMBELLA	10	1	9	1	--	-	--	-
...DIATOMACEAE								
....DIATOMA	55	8	18	2	39	4	--	-
....OPEPHORA	66	9	--	-	--	-	--	-
...EUNOTIACEAE								
....EUNOTIA	--	-	18	2	--	-	--	-
...FRAGILARIACEAE								
....FRAGILARIA	--	-	--	-	--	-	--	-
....SYNEDRA	66	9	55	5	13	1	--	-
...GOMPHONEMATACEAE								
....GOMPHONEMA	--	-	74	6	--	-	--	-
...NAVICULACEAE								
....NAVICULA	15	2	64	5	--	-	26	3
...NITZSCHIACEAE								
....NITZSCHIA	81	11	130	11	290#	31	300#	29
...SURIRELLACEAE								
....SURIRELLA	--	-	450#	37	13	1	13	1
...TABELLARIACEAE								
....TABELLARIA	5	1	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)								
.CRYPTOPHYCEAE								
..CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE								
....CHROOMONAS	--	-	--	-	--	-	13	1
...CRYPTOMONADACEAE								
....CRYPTOMONAS	--	-	--	-	26	3	13	1
CYANOPHYTA (BLUE-GREEN ALGAE)								
.CYANOPHYCEAE								
..CHROOCOCCALES								
...CHROOCOCCACEAE								
....ANACYSTIS	--	-	--	-	--	-	--	-
..HORMOGONALES								
...OSCILLATORIACEAE								
....SCHIZOTHRIX	360#	51	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)								
.EUGLENOPHYCEAE								
..EUGLENALES								
...EUGLENACEAE								
....EUGLENA	--	-	--	-	26	3	--	-
....TRACHELOMONAS	--	-	9	1	--	-	13	1
PYRRHOPHYTA (FIRE ALGAE)								
.DINOPHYCEAE								
..GYMNODINIALES								
...GYMNODINIACEAE								
....GYMNODINIUM	--	-	37	3	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

10039500 BEAR RIVER AT BORDER, WY--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE TIME	JUL 8,80 1130	AUG 6,80 1130	SEP 3,80 1310
TOTAL CELLS/ML	670	2900	21000
DIVERSITY: DIVISION	1.0	1.7	0.9
.CLASS	1.0	1.7	0.9
..ORDER	1.9	2.1	1.1
...FAMILY	2.8	2.4	1.3
....GENUS	3.0	2.5	1.3

ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...CHARACIACEAE						
....SCHROEDERIA	13	2	--	-	--	-
...MICRACTINIACEAE						
....GOLENKINIA	--	-	20	1	--	-
....MICRACTINIUM	--	-	--	-	550	3
...OOCYSTACEAE						
....ANKISTRODESMUS	13	2	180	6	550	3
....CHLORELLA	--	-	--	-	--	-
....DICTYOSPHAERIUM	--	-	--	-	--	-
....OOCYSTIS	--	-	80	3	--	-
...SCENEDESMACEAE						
....SCENEDESMUS	100#	15	360	13	1900	9
....TETRASTRUM	--	-	--	-	--	-
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	39	6	160	6	140	1
...VOLVOCACEAE						
....GONIUM	--	-	--	-	--	-
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	150#	23	1100#	38	16000#	79
....MELOSIRA	39	6	--	-	--	-
....STEPHANODISCUS	--	-	--	-	--	-
..PENNALES						
...CYMBELLACEAE						
....CYMBELLA	--	-	--	-	--	-
...DIATOMACEAE						
....DIATOMA	--	-	--	-	--	-
....OPEPHORA	--	-	--	-	--	-
...EUNOTIACEAE						
....EUNOTIA	--	-	--	-	--	-
...FRAGILARIACEAE						
....FRAGILARIA	140#	21	--	-	--	-
....SYNEDRA	--	-	--	-	--	-
...GOMPHONEMATACEAE						
....GOMPHONEMA	--	-	--	-	--	-
...NAVICULACEAE						
....NAVICULA	26	4	20	1	140	1
...NITZSCHIACEAE						
....NITZSCHIA	100#	15	100	3	140	1
...SURIRELLACEAE						
....SURIRELLA	13	2	--	-	--	-
...TABELLARIACEAE						
....TABELLARIA	--	-	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	140	1
...CRYPTOMONADACEAE						
....CRYPTOMONAS	26	4	80	3	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	--	-	800#	28	690	3
..HORMOGONALES						
...OSCILLATORIACEAE						
....SCHIZOTHRIX	--	-	--	-	--	-
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....EUGLENA	--	-	--	-	--	-
....TRACHELOMONAS	--	-	--	-	140	1
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..GYMNODINIALES						
...GYMNODINIACEAE						
....GYMNODINIUM	--	-	--	-	--	-

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

10039500 BEAR RIVER AT BORDER, WY--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	541	582	594	594	540	468	630	471	547	576	583	559
2	541	573	614	588	585	474	624	471	541	581	563	557
3	559	568	592	577	583	474	621	478	539	589	566	559
4	571	590	603	579	564	474	627	465	541	589	576	554
5	571	554	561	579	566	468	616	465	541	557	561	537
6	571	563	567	579	561	465	627	465	547	584	557	554
7	565	566	556	573	562	472	622	524	541	584	547	525
8	565	545	567	553	575	470	617	516	481	584	549	521
9	565	557	628	547	550	470	622	521	479	590	539	521
10	540	565	634	560	555	474	664	518	475	582	512	521
11	540	563	639	567	552	512	656	524	475	582	552	519
12	552	563	624	564	551	512	661	524	475	587	552	525
13	546	560	629	577	543	436	653	513	475	644	552	519
14	507	558	632	375	546	519	659	519	475	644	541	519
15	540	535	626	369	557	511	496	519	470	639	536	508
16	552	549	580	367	554	517	496	519	468	644	541	513
17	653	593	586	383	559	535	488	530	463	644	530	508
18	642	607	580	375	546	539	513	530	468	649	530	508
19	631	529	582	378	326	539	481	530	468	639	530	525
20	643	568	582	375	326	670	481	533	466	649	477	508
21	643	584	585	380	325	664	481	530	466	633	542	508
22	637	584	571	377	319	662	485	528	466	626	542	513
23	631	615	578	379	408	667	479	534	476	639	548	508
24	589	617	559	578	400	667	475	526	557	623	548	508
25	589	600	581	574	326	664	471	524	557	599	548	524
26	589	555	584	582	328	662	477	528	562	583	548	522
27	581	581	578	582	326	662	469	528	555	604	548	520
28	576	628	590	582	323	667	477	534	557	597	529	518
29	590	659	---	582	472	670	467	528	589	604	557	518
30	585	608	591	582	---	667	475	539	587	604	537	571
31	579	---	600	580	---	670	---	545	---	604	559	---
MEAN	580	577	593	511	444	559	554	515	510	608	545	526

WTR YR 1980 MEAN 547 MAX 670 MIN 319

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	5.0	.5	.5	1.0	.5	4.5	12.5	12.0	17.0	20.5	15.5
2	12.5	4.5	.5	.5	1.0	.5	4.0	12.5	12.0	17.5	21.0	15.5
3	12.5	4.5	.5	.5	1.0	.5	4.0	13.0	12.0	17.0	19.5	15.0
4	12.5	4.0	.5	.5	1.0	.5	4.5	13.0	12.0	18.0	16.0	15.5
5	12.5	4.0	.5	.5	1.0	.5	4.5	13.0	12.5	19.5	18.5	16.0
6	12.5	4.5	.5	.5	1.0	.5	4.5	13.0	12.5	21.0	21.5	16.0
7	12.0	4.5	.5	.5	1.0	.5	5.0	12.5	13.0	19.0	20.5	14.0
8	12.0	4.5	.5	.5	1.0	.5	5.5	12.5	13.5	19.5	21.0	14.0
9	12.0	4.0	.5	.5	.5	.5	5.5	12.0	14.0	20.0	21.5	14.0
10	12.5	4.0	.5	.5	.5	.5	7.0	12.0	14.0	20.5	20.0	14.0
11	12.5	3.5	.5	.5	.5	.5	9.0	12.0	14.0	20.5	19.5	13.5
12	11.5	4.0	.5	.5	.5	.5	9.0	11.5	14.5	20.5	20.5	13.0
13	9.0	2.0	.5	.5	.5	2.5	8.5	11.5	15.0	21.0	20.0	13.0
14	9.0	2.0	.5	.5	.5	3.0	9.0	11.5	15.0	21.0	23.5	13.0
15	9.0	1.5	.5	.5	.5	3.0	9.0	11.5	16.5	21.0	19.5	12.5
16	11.0	1.5	.5	.5	.5	3.0	9.0	10.5	17.5	20.5	19.0	11.5
17	9.0	1.0	.5	.5	.5	3.0	9.0	10.5	18.0	19.0	19.0	11.5
18	9.0	1.0	.5	.5	.5	3.0	9.0	10.5	18.0	19.0	19.0	11.5
19	7.5	1.0	.5	.5	.5	3.0	9.5	10.5	18.0	18.0	17.5	11.0
20	7.5	1.0	.5	.5	.5	2.5	10.0	10.5	18.0	19.0	14.0	11.0
21	7.0	.0	.5	.5	.5	2.5	10.0	9.5	18.0	18.0	19.5	11.0
22	7.0	.0	.5	.5	.5	2.5	10.0	9.5	18.5	20.0	15.5	11.0
23	7.0	.0	.5	.5	.5	2.5	9.5	9.5	18.0	20.0	19.5	11.0
24	6.5	.0	.5	.5	.5	2.5	10.0	9.5	18.5	19.5	15.5	12.0
25	5.0	.0	.5	.5	.5	2.5	10.5	9.5	18.0	20.0	15.5	12.5
26	5.0	.5	.5	.5	.5	2.5	11.0	9.5	17.5	20.0	14.5	12.5
27	5.0	.5	.5	.5	.5	3.0	11.5	10.0	17.5	19.5	15.0	12.5
28	5.0	.5	.5	.5	.5	3.0	12.0	10.0	17.5	21.0	15.5	12.0
29	5.0	.5	.5	.5	.5	3.0	12.0	11.0	17.0	19.0	14.5	12.5
30	5.0	.5	.5	.5	---	3.5	12.5	11.5	16.5	21.0	13.0	12.0
31	5.0	---	.5	1.0	---	3.5	---	12.0	---	21.0	16.0	---
MEAN	9.0	2.0	.5	.5	.5	2.0	8.5	11.0	15.5	19.5	18.0	13.0

WTR YR 1980 MEAN 8.5 MAX 23.5 MIN .0

10041000 THOMAS FORK NEAR WYOMING-IDAHO STATE LINE

LOCATION.--Lat 42°24'10", long 111°01'30", in SE1/4NW1/4 sec.19, T.28 N., R.119 W., Lincoln County, Wyoming, Hydrologic Unit 16010102, on right bank 1.3 mi (2.1 km) upstream from State line, 1.5 mi (2.4 km) downstream from Giraffe Creek, and 3.5 mi (5.6 km) northeast of Geneva, Idaho.

DRAINAGE AREA.--113 mi^2 (293 km^2).

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,280 ft (1,914 m) from topographic map. Prior to Aug. 23, 1957, at site 0.2 mi (0.3 km) upstream at different datum.

REMARKS.--Records goud except those for winter periods, which are fair.

AVERAGE DISCHARGE.--31 years, 55.1 ft^3/s (1.56 m^3/s), 39,920 acre-ft/yr (49.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) May 14, 1971, gage height, 3.84 ft (1.170 m); minimum, 2.6 ft^3/s (0.074 m^3/s) Mar. 2, 1956, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 150 ft^3/s (4.25 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage Height (ft)	Gage Height (m)
Apr. 30	0300	*748	21.2	3.37	1.027
May 24	0200	334	9.46	2.41	.735
June 3	2100	607	17.2	3.09	.942

Minimum discharge, 6.6 ft^3/s (0.187 m^3/s) Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	13	13	14	13	12	530	226	113	45	31
2	13	14	13	13	14	13	12	490	252	104	43	30
3	13	15	13	13	14	13	12	455	342	105	43	29
4	13	15	13	13	14	13	13	477	326	98	42	28
5	13	15	13	13	14	12	14	497	329	92	41	28
6	13	14	14	13	14	12	16	461	324	88	40	27
7	13	14	14	13	14	12	14	469	307	87	39	29
8	13	14	14	13	13	12	14	438	291	87	38	29
9	13	15	13	13	12	11	14	446	278	82	37	29
10	13	13	14	13	12	11	14	426	265	79	36	28
11	13	14	13	13	12	10	14	391	248	76	36	38
12	13	14	13	15	12	9.9	15	394	233	74	35	38
13	13	14	13	19	12	10	16	362	220	72	35	33
14	13	14	13	19	12	9.9	19	343	209	70	35	30
15	14	14	13	16	13	10	26	334	200	68	44	27
16	15	14	13	15	13	10	32	343	190	66	51	27
17	14	14	13	15	13	10	38	326	179	65	41	26
18	15	15	13	15	14	10	53	304	169	63	36	25
19	42	13	13	14	15	12	71	293	162	64	36	26
20	30	13	13	14	14	12	97	284	155	60	37	26
21	19	13	13	14	13	12	124	277	147	58	35	27
22	17	13	13	14	13	12	168	268	140	56	34	26
23	16	13	13	14	13	13	237	306	133	54	33	25
24	16	13	13	14	13	13	275	299	128	53	32	25
25	15	13	13	14	13	13	237	276	122	52	34	25
26	15	14	13	14	13	12	297	265	117	49	45	25
27	14	13	13	14	13	13	307	250	112	48	34	24
28	14	13	13	14	13	13	331	237	110	47	33	24
29	14	13	13	14	13	14	373	252	107	46	31	24
30	13	13	13	14	---	13	605	237	107	46	31	24
31	14	---	13	14	---	13	---	233	---	45	32	---
TOTAL	479	413	407	439	382	366.8	3470	10963	6128	2167	1164	833
MEAN	15.5	13.8	13.1	14.2	13.2	11.8	116	354	204	69.9	37.5	27.8
MAX	42	15	14	19	15	14	605	530	342	113	51	38
MIN	13	13	13	13	12	9.9	12	233	107	45	31	24
AC-FT	950	819	807	871	758	728	6880	21750	12150	4300	2310	1650

CAL YR 1979 TOTAL 14714.0 MEAN 40.3 MAX 284 MIN 13 AC-FT 29190
WTR YR 1980 TOTAL 27211.8 MEAN 74.3 MAX 605 MIN 9.9 AC-FT 53970

10044000 BEAR RIVER AT HARER, ID

LOCATION.--Lat 42°11'50", long 111°10'05", in NW1/4 sec.23, T.14 S., R.45 E., Bear Lake County, Hydrologic Unit 16010102, on right bank 400 ft (122 m) downstream from Sheep Creek, 0.8 mi (1.3 km) north of Harer siding on Union Pacific (Oregon Short Line) Railroad, and 5 mi (8 km) southeast of Dingle.

DRAINAGE AREA.--2,839 mi^2 (7,353 km^2).

PERIOD OF RECORD.--June 1913 to current year. Monthly discharge only October 1916 to December 1918 published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,000 ft (1,830 m) from topographic map. Prior to Aug. 24, 1914, staff gage at site 1,500 ft (457 m) downstream at different datum.

REMARKS.--Records good except those for winter months, which are fair. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--67 years, 519 ft^3/s (14.7 m^3/s), 376,000 acre-ft/yr (464 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,440 ft^3/s (126 m^3/s) May 7, 1952, gage height, 11.04 ft (3.365 m); minimum daily, 26 ft^3/s (0.74 m^3/s) Aug. 21-27, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,060 ft^3/s (86.7 m^3/s) May 10, gage height, 9.84 ft (2.999 m); minimum, 98 ft^3/s (2.78 m^3/s) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	200	182	128	160	454	381	2660	1830	922	437	214
2	123	204	176	134	164	436	364	2710	1830	975	409	220
3	122	206	179	139	173	442	349	2780	2000	1040	415	225
4	117	214	192	143	189	460	341	2840	2120	1050	393	223
5	116	214	202	146	188	460	352	2840	2150	1040	357	215
6	117	215	198	148	180	481	395	2840	2170	1100	356	212
7	121	204	195	143	172	440	444	2900	2150	1220	372	222
8	123	166	196	137	161	456	445	2960	2110	1220	377	219
9	119	149	195	134	145	498	416	3000	2050	1130	343	218
10	117	145	190	143	131	518	427	3040	1970	1060	336	221
11	112	144	178	142	125	445	419	3050	1970	1040	330	234
12	101	149	153	136	124	446	467	3050	2000	1000	319	256
13	101	183	139	149	127	461	504	3030	2000	934	307	262
14	104	184	134	176	141	445	573	2980	1990	861	298	246
15	103	208	144	219	156	448	782	2900	1940	866	305	234
16	102	195	153	282	160	514	1010	2850	1900	921	313	225
17	101	208	156	375	163	598	1220	2830	1830	831	318	215
18	102	229	155	481	164	466	1400	2810	1780	802	320	223
19	116	205	150	599	175	528	1580	2790	1690	749	298	224
20	133	234	159	610	203	527	1650	2760	1690	682	316	214
21	170	237	166	557	223	448	1760	2720	1700	707	329	209
22	191	224	174	472	242	442	1900	2670	1660	765	306	205
23	200	213	180	365	400	445	2040	2660	1620	743	267	204
24	217	223	175	316	556	407	2180	2620	1490	741	239	202
25	205	220	169	289	619	409	2230	2520	1440	692	222	212
26	196	230	158	262	646	440	2380	2450	1340	659	222	214
27	188	238	154	224	691	417	2580	2350	1150	610	227	209
28	182	225	136	201	621	388	2710	2220	1020	559	221	207
29	189	206	128	185	520	371	2720	2090	935	494	218	211
30	205	187	127	176	---	374	2680	1940	926	480	208	198
31	201	---	128	170	---	380	---	1880	---	462	208	---
TOTAL	4407	6059	5120	7781	7719	14034	36699	83740	52451	26355	9586	6593
MEAN	142	202	165	251	266	453	1223	2701	1748	850	309	220
MAX	217	238	202	610	691	598	2720	3050	2170	1220	437	262
MIN	101	144	127	128	124	371	341	1880	926	462	208	198
AC-FT	8740	12020	10160	15430	15310	27840	72790	166100	104000	52280	19010	13080

CAL YR 1979 TOTAL 112082 MEAN 307 MAX 979 MIN 101 AC-FT 222300
WTR YR 1980 TOTAL 260544 MEAN 712 MAX 3050 MIN 101 AC-FT 516800

10046000 RAINBOW INLET CANAL NEAR DINGLE, ID

LOCATION.--Lat 42°13'48", long 111°17'43", in SE1/4 sec.3, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 1.5 mi (2.4 km) west of Dingle and 1.8 mi (2.9 km) downstream from headworks at Stewart Dam.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only prior to October 1943, published in WSP 1314.

GAGE.--Water-stage recorder. Elevation of gage datum is 5,922.0 ft (1,805.03 m) National Geodetic Vertical Datum of 1929 (by topographic survey). Prior to Oct. 1, 1923, at site 300 ft (91 m) downstream at different datum; Oct. 1, 1923 to Oct. 27, 1944, at site 0.5 mi (0.8 km) downstream at different datum.

REMARKS.--Records good. Canal diverts from Bear River at Stewart Dam in NE1/4 sec.34, T.13 S., R.44 E., for storage in Bear Lake. At times flow in canal is augmented by surplus water from Black Otter Slough entering at the station and by seepage and surplus water from irrigation.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--58 years, 341 ft^3/s (9.66 m^3/s), 247,100 acre-ft/yr (305 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,180 ft^3/s (118 m^3/s) May 7, 1952, gage height, 8.62 ft (2.627 m); no flow Apr. 28, 1977 and Oct. 1, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,950 ft^3/s (33.5 m^3/s) Apr. 10, gage height, 7.42 ft (2.262 m); no flow Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	62	87	83	124	443	317	2580	1700	505	249	146
2	17	121	89	87	125	457	300	2600	1660	543	232	157
3	17	124	100	92	125	413	285	2640	1720	603	216	163
4	16	130	116	96	132	409	281	2710	1830	725	214	169
5	11	132	120	94	137	403	293	2740	1930	776	206	166
6	9.6	136	123	101	129	389	317	2740	1910	812	188	166
7	6.4	144	126	103	123	381	344	2790	1880	933	190	163
8	6.3	160	130	100	145	362	379	2770	1840	918	198	168
9	12	151	137	91	138	411	349	2820	1790	885	193	166
10	8.4	159	165	106	133	418	341	2870	1710	826	193	171
11	10	137	160	93	120	404	339	2920	1680	791	182	182
12	18	136	80	84	114	329	372	2950	1690	756	181	196
13	27	120	81	95	112	301	404	2940	1610	715	172	213
14	35	98	98	114	114	374	444	2890	1590	644	159	208
15	11	130	97	130	119	320	560	2790	1590	624	172	189
16	6.3	130	96	155	126	363	821	2720	1570	734	180	187
17	8.4	136	106	176	131	345	1030	2680	1510	690	186	181
18	2.0	171	99	237	141	461	1220	2660	1420	652	188	181
19	13	170	89	359	153	473	1370	2660	1340	622	189	188
20	40	135	91	358	164	429	1510	2620	1220	573	198	180
21	57	129	103	349	187	386	1640	2560	1150	521	238	169
22	68	127	97	315	212	397	1760	2500	1120	438	250	165
23	39	119	108	300	249	380	1880	2510	1080	437	225	151
24	25	114	101	270	309	363	2040	2480	1040	432	194	139
25	30	110	71	255	445	348	2210	2420	938	410	180	139
26	29	109	81	208	473	362	2340	2370	896	383	167	148
27	29	112	88	171	461	366	2390	2280	532	366	162	145
28	29	94	77	139	529	339	2470	2160	642	369	164	143
29	26	83	75	140	512	325	2520	2070	563	331	163	147
30	19	81	76	136	---	319	2460	1880	511	292	152	146
31	15	---	83	132	---	320	---	1770	---	295	144	---
TOTAL	648.9	3760	3150	5170	5982	11790	32986	80090	41662	18601	5925	5032
MEAN	20.9	125	102	167	206	380	1100	2584	1389	600	191	168
MAX	68	171	165	359	529	473	2520	2950	1930	933	250	213
MIN	2.0	62	71	83	112	301	281	1770	511	292	144	139
AC-FT	1290	7460	6250	10250	11870	23390	65430	158900	82640	36900	11750	9980

CAL YR 1979 TOTAL 65512.3 MEAN 179 MAX 667 MIN 2.0 AC-FT 129900
WTR YR 1980 TOTAL 214796.9 MEAN 587 MAX 2950 MIN 2.0 AC-FT 426000

10046500 BEAR RIVER BELOW STEWART DAM, NEAR MONTPELIER, ID

LOCATION.--Lat 42°15'14", long 111°17'35", in NE1/4 sec.34, T.13 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 300 ft (91 m) downstream from Stewart Dam and 4.5 mi (7.2 km) south of Montpelier.

DRAINAGE AREA.--2,853 mi^2 (7,389 km^2).

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m) from topographic map.

REMARKS.--Records good. Water diverted at Stewart Dam through Rainbow inlet canal (station 10046000) for storage in Bear Lake.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--58 years, 45.5 ft^3/s (1.29 m^3/s), 32,960 acre-ft/yr (40.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,050 ft^3/s (86.4 m^3/s) June 3, 1923; no flow July 15, 1956, July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 143 ft^3/s (4.05 m^3/s) Oct. 27, gage height, 2.60 ft (0.792 m); minimum, 3.0 ft^3/s (0.085 m^3/s) Jan. 2-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	53	3.4	3.1	4.8	5.0	3.9	12	12	32	33	34
2	5.9	22	3.5	3.0	4.9	4.6	4.0	12	34	32	31	35
3	6.3	19	3.5	3.0	5.0	4.1	4.0	13	54	36	30	37
4	6.8	19	3.5	3.0	5.2	3.7	4.1	13	58	36	34	39
5	7.5	19	3.5	3.2	5.3	3.7	4.1	15	60	31	36	32
6	8.0	18	3.5	3.5	5.5	3.7	4.2	15	58	30	32	32
7	8.6	20	3.5	3.8	5.7	3.7	4.0	15	58	32	31	34
8	9.0	19	3.5	4.2	5.9	3.8	4.2	13	57	30	34	37
9	9.5	19	3.5	4.5	6.0	3.8	4.5	13	55	26	31	40
10	9.9	19	3.6	4.9	6.1	3.8	4.7	13	53	26	29	46
11	10	18	3.6	4.9	6.3	3.8	5.0	15	52	26	29	50
12	9.6	18	3.6	5.0	6.4	3.9	5.3	15	51	25	35	37
13	9.2	17	3.6	5.0	6.8	3.9	5.6	15	49	25	34	36
14	9.2	15	3.7	5.1	6.7	3.9	6.0	14	49	56	35	36
15	9.3	11	3.6	5.1	6.5	4.0	8.2	13	49	74	35	35
16	9.2	6.4	3.6	5.2	6.3	4.3	19	12	49	79	35	35
17	9.2	5.9	3.5	5.2	6.1	4.4	17	12	48	45	36	35
18	9.5	5.5	3.5	5.3	6.0	4.4	13	11	50	44	37	35
19	9.6	5.5	3.4	6.2	5.8	4.1	12	11	51	39	37	35
20	9.3	5.1	3.3	6.1	5.6	3.9	13	12	52	45	37	35
21	15	4.8	3.3	6.0	5.9	3.7	13	13	62	50	37	36
22	37	4.5	3.2	5.6	6.3	3.5	11	14	60	51	39	36
23	84	4.2	3.1	5.3	6.8	3.3	11	15	54	56	38	35
24	131	3.9	3.3	5.0	9.2	3.2	11	15	52	55	37	35
25	130	3.7	3.4	5.0	9.9	3.1	10	14	50	53	37	34
26	138	3.5	3.3	4.8	7.5	3.2	9.8	13	46	50	36	35
27	140	3.4	3.3	4.5	7.4	3.3	9.3	12	37	49	36	35
28	138	3.4	3.3	4.3	7.1	3.4	10	11	37	49	36	35
29	139	3.4	3.2	4.4	5.9	3.6	11	12	34	42	35	35
30	139	3.4	3.2	4.5	---	3.7	12	13	33	30	34	35
31	109	---	3.1	4.6	---	3.9	---	14	---	34	34	---
TOTAL	1371.2	372.6	106.1	143.3	182.9	118.4	253.9	410	1464	1288	1070	1086
MEAN	44.2	12.4	3.42	4.62	6.31	3.82	8.46	13.2	48.8	41.5	34.5	36.2
MAX	140	53	3.7	6.2	9.9	5.0	19	15	62	79	39	50
MIN	5.6	3.4	3.1	3.0	4.8	3.1	3.9	11	12	25	29	32
AC-FT	2720	739	210	284	363	235	504	813	2900	2550	2120	2150

CAL YR 1979 TOTAL 10961.9 MEAN 30.0 MAX 140 MIN 3.1 AC-FT 21740
WTR YR 1980 TOTAL 7866.4 MEAN 21.5 MAX 140 MIN 3.0 AC-FT 15600

10055500 BEAR LAKE AT LIFTON, NEAR ST. CHARLES, ID

LOCATION.--Lat 42°07'160", long 111°18'52", in NE1/4 sec.16, T.15 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, in Lifton pumping plant of Utah Power & Light Company 3.5 mi (5.6 km) east of St. Charles.

DRAINAGE AREA.--435 mi^2 (1,127 km^2), approximately (does not include Mud Lake drainage).

PERIOD OF RECORD.--October 1903 to June 1906, elevations only, published as "at Fish Haven", January 1921 to current year. Monthly contents only January 1921 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798.3 m) Utah Power & Light Company datum.

REMARKS.--Outflow regulated by gates and pumps at the north end of Bear Lake and by gates in dike at north end of Mud Lake, a shallow interconnected lake. Principal inflow to Bear Lake is from Bear River through Rainbow inlet canal (station 10046000) and Dingle inlet canals into Mud Lake, from which the inflow can enter into Bear Lake either through the pumping plant or an opening in the dividing causeway. The inflow can be routed directly into the Outlet canal (station 10059500). Usable capacity of Bear Lake is 1,421,000 acre-ft (1.75 km^3) between elevation 5,902.00 ft (1,798.930 m), lower limit of pumps, and 5,923.65 ft (1,805.529 m), upper limit of storage with existing facilities. Water is used for irrigation and power development. Figures herein given represent usable contents.

COOPERATION.--Records furnished by Utah Power & Light Company, under general supervision of Geological Survey, in connection with a Federal Power Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,423,000 acre-ft (1.75 km^3) June 10, 1923, elevation, 5,923.68 ft (1,805.538 m); no usable contents Nov. 9-19, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,366,000 acre-ft (1.68 km^3) June 25, elevation, 5,922.86 ft (1,805.288 m); minimum, 936,400 acre-ft (1.15 km^3) Nov. 11.

Capacity table (elevation, in feet, and usable contents, in acre-feet)

5,916	888,600	5,920	1,165,000
5,917	956,900	5,921	1,235,000
5,918	1,026,000	5,922	1,305,000
5,919	1,095,000		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	954200	946700	937100	939100	974800	1007000	1033000	1123000	1323000	1366000	1347000	1254000
2	952100	946700	937100	939100	976900	1008000	1033000	1130000	1329000	1366000	1345000	1250000
3	951500	946700	937100	939800	978900	1009000	1034000	1137000	1335000	1366000	1342000	1247000
4	950800	946700	937100	939800	981000	1011000	1035000	1144000	1340000	1366000	1339000	1244000
5	949400	946700	937100	939800	982400	1013000	1036000	1151000	1343000	1366000	1335000	1241000
6	948700	946700	937100	939800	983800	1014000	1037000	1158000	1345000	1366000	1330000	1238000
7	948000	945300	937100	940500	984400	1015000	1038000	1165000	1347000	1366000	1325000	1238000
8	947300	943900	937100	940500	985100	1017000	1040000	1173000	1349000	1366000	1320000	1237000
9	946700	941900	937100	941200	985100	1018000	1041000	1182000	1351000	1366000	1315000	1235000
10	946000	939100	937100	941900	985800	1020000	1042000	1190000	1353000	1366000	1311000	1233000
11	945300	936400	937100	941900	985800	1021000	1043000	1198000	1354000	1366000	1309000	1231000
12	945300	936400	937100	942600	985800	1022000	1044000	1208000	1356000	1366000	1307000	1230000
13	944600	936400	937100	943900	985800	1022000	1045000	1215000	1357000	1366000	1305000	1228000
14	944600	936400	937100	945300	985800	1022000	1045000	1221000	1359000	1365000	1303000	1227000
15	944600	936400	937100	946700	986500	1023000	1046000	1228000	1360000	1364000	1302000	1225000
16	944600	936400	937100	948000	986500	1023000	1048000	1236000	1361000	1364000	1299000	1223000
17	944600	936400	937100	949400	986500	1024000	1050000	1245000	1361000	1363000	1297000	1221000
18	944600	936400	937100	950800	987200	1024000	1052000	1252000	1362000	1363000	1295000	1218000
19	944600	937100	937100	952100	989300	1026000	1055000	1258000	1363000	1363000	1291000	1215000
20	944600	937100	937100	953500	991300	1027000	1058000	1263000	1363000	1362000	1288000	1213000
21	946000	937100	937800	954900	993400	1028000	1063000	1266000	1364000	1361000	1284000	1210000
22	946700	937100	937800	956300	995500	1029000	1071000	1271000	1365000	1360000	1281000	1207000
23	947300	937100	937800	957600	997500	1030000	1078000	1277000	1365000	1360000	1278000	1204000
24	947300	937100	937800	959000	999600	1031000	1085000	1283000	1365000	1360000	1276000	1201000
25	947300	937100	937800	961100	1001000	1032000	1092000	1290000	1366000	1359000	1273000	1197000
26	947300	937100	937800	963100	1002000	1032000	1095000	1295000	1366000	1358000	1271000	1194000
27	947300	937100	938400	965200	1002000	1033000	1099000	1298000	1366000	1356000	1268000	1191000
28	947300	937100	938400	967200	1004000	1033000	1106000	1302000	1366000	1355000	1265000	1188000
29	947300	937100	938400	969300	1005000	1033000	1109000	1306000	1366000	1353000	1262000	1185000
30	946700	937100	938400	970700	---	1033000	1114000	1314000	1366000	1351000	1259000	1182000
31	946700	---	938400	972700	---	1033000	---	1317000	---	1349000	1257000	---
MAX	954200	946700	938400	972700	1005000	1033000	1114000	1317000	1366000	1366000	1347000	1254000
MIN	944600	936400	937100	939100	974800	1007000	1033000	1123000	1323000	1349000	1257000	1182000
(†)	5916.85	5916.71	5916.73	5917.23	5917.70	5918.10	5919.27	5922.17	5922.86	5922.62	5921.31	5920.25
(‡)	-9500	-9600	+1300	+34300	+32300	+28000	+81000	+203000	+49000	-17000	-92000	-75000

CAL YR . . . . . . (‡) -39100
WTR YR . . . . . . (‡) +225800

(†) Elevation, in feet, at end of month.
(‡) Change in contents in acre-feet.

10058600 BLOOMINGTON CREEK AT BLOOMINGTON, ID

LOCATION.--Lat 42°11'05", long 111°25'30", in SE1/4SE1/4 sec.21, T.14 S., R.43 E., Bear Lake County, Hydrologic Unit 16010201, on left bank 1 mi (2 km) west of Bloomington.

DRAINAGE AREA.--24.0 mi^2 (62.2 km^2).

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder 4 ft (1.2 m) above 8-ft (2.44-m) concrete flume. Altitude of gage is 6,070 ft (1,850 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 29.4 ft^3/s (0.833 m^3/s), 21,300 acre-ft/yr (26.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 248 ft^3/s (7.02 m^3/s) June 11, 1971, gage height, 4.66 ft (1.420 m); minimum, 9.4 ft^3/s (0.27 m^3/s) Jan. 27, 1961, Feb. 26, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 126 ft^3/s (3.57 m^3/s) June 3, gage height, 3.40 ft (1.036 m); minimum, 14 ft^3/s (0.396 m^3/s) Jan. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	17	17	15	15	16	71	77	65	37	29
2	20	18	17	17	15	15	16	72	94	63	37	29
3	20	19	17	17	15	15	16	69	99	62	36	29
4	19	19	17	17	15	15	16	72	86	61	36	29
5	20	19	17	17	15	15	18	81	92	58	36	28
6	20	18	17	17	15	15	18	91	91	57	35	28
7	20	18	17	17	15	15	17	91	88	55	34	29
8	20	18	17	17	15	15	17	92	88	54	34	28
9	19	18	17	17	15	15	17	102	98	52	34	28
10	19	17	17	17	15	15	17	85	104	51	34	28
11	19	18	17	17	15	16	18	73	107	50	33	30
12	19	17	17	19	15	15	19	67	108	49	33	31
13	19	17	17	23	15	15	19	60	106	49	33	28
14	19	17	17	23	15	16	21	59	103	48	32	28
15	19	17	17	20	15	16	24	62	96	47	34	27
16	20	17	17	18	15	15	24	67	91	47	34	27
17	19	18	17	18	15	15	25	59	89	46	33	27
18	20	19	17	18	16	15	28	57	89	45	32	27
19	32	18	17	17	17	15	34	65	89	44	32	27
20	22	16	17	17	16	15	39	79	89	43	32	26
21	20	17	17	17	15	16	42	91	87	43	31	27
22	20	17	17	17	15	16	49	102	85	42	31	26
23	19	18	17	17	15	16	64	108	81	41	31	26
24	19	18	17	17	15	16	61	100	79	41	31	26
25	19	18	17	17	15	16	58	84	75	40	31	26
26	19	18	17	16	15	16	57	74	72	39	31	25
27	19	18	17	16	15	16	55	70	70	39	30	25
28	19	18	17	15	15	16	56	69	68	38	30	25
29	19	17	17	15	15	16	58	73	65	38	30	25
30	18	17	17	15	---	16	67	71	64	38	30	25
31	18	---	17	15	---	16	---	75	---	38	30	---
TOTAL	614	534	527	537	439	479	986	2391	2630	1483	1017	819
MEAN	19.8	17.8	17.0	17.3	15.1	15.5	32.9	77.1	87.7	47.8	32.8	27.3
MAX	32	19	17	23	17	16	67	108	108	65	37	31
MIN	18	17	17	15	15	15	16	57	64	38	30	25
AC-FT	1220	1060	1050	1070	871	950	1960	4740	5220	2940	2020	1620

CAL YR 1979 TOTAL 9410 MEAN 25.8 MAX 107 MIN 18 AC-FT 18660
WTR YR 1980 TOTAL 12456 MEAN 34.0 MAX 108 MIN 15 AC-FT 24710

10059500 BEAR LAKE OUTLET CANAL NEAR PARIS, ID

LOCATION.--Lat 42°13'00", long 111°20'35", in SW1/4 sec.8, T.14 S., R.44 E., Bear Lake County, Hydrologic Unit 16010201, on right bank 2,000 ft (610 m) downstream from headgates (at dike) and 3 mi (5 km) southeast of Paris.

PERIOD OF RECORD.--January 1922 to current year. Monthly discharge only January 1922 to September 1945, published in WSP 1314.

GAGE.--Water-stage recorder. Datum of gage is 5,912.6 ft (1,802.16 m) National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records good. Flow regulated by Bear Lake (station 10055500).

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--58 years, 370 ft^3/s (10.5 m^3/s), 268,160 acre-ft/yr (331 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,870 ft^3/s (53.0 m^3/s) Aug. 8, 1924; minimum daily, 1 ft^3/s (0.28 m^3/s) for many days in 1937, 1954, 1959, 1961, 1964, 1977, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,690 ft^3/s (47.9 m^3/s) July 23, gage height, 19.27 (5.873 m); minimum daily, 3.0 ft^3/s (0.085 m^3/s) many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	112	3.0	3.0	3.0	3.0	3.0	12	8.0	1070	1260	1300
2	71	124	3.0	3.0	3.0	3.0	3.0	12	8.0	1170	1250	1290
3	104	48	3.0	3.0	3.0	3.0	3.0	12	484	1140	1250	1300
4	172	44	3.0	3.0	3.0	3.0	3.0	12	620	1150	1250	1340
5	170	20	3.0	3.0	3.0	3.0	3.0	12	874	1130	1310	1330
6	167	38	3.0	3.0	3.0	3.0	3.0	12	980	1120	1360	1320
7	161	38	3.0	3.0	3.0	3.0	3.0	8.0	1010	1100	1380	1310
8	161	19	3.0	3.0	3.0	3.0	3.0	8.0	1040	1150	1360	1300
9	156	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1050	1130	1360	1300
10	152	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1070	1140	1350	1280
11	147	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1030	1200	1350	1310
12	142	3.0	3.0	3.0	3.0	3.0	3.0	8.0	998	1260	1350	1340
13	137	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1030	1270	1350	1320
14	133	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1040	1250	1320	1300
15	128	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1040	1280	1310	1270
16	124	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1050	1360	1350	1230
17	120	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1030	1300	1370	1230
18	171	3.0	3.0	3.0	3.0	3.0	3.0	8.0	1010	1310	1380	1260
19	264	3.0	3.0	3.0	3.0	3.0	3.0	8.0	968	1320	1370	1250
20	409	3.0	3.0	3.0	3.0	3.0	3.0	8.0	965	1200	1360	1240
21	290	3.0	3.0	3.0	3.0	3.0	12	8.0	927	1200	1360	1230
22	269	3.0	3.0	3.0	3.0	3.0	12	8.0	909	1310	1370	1230
23	237	3.0	3.0	3.0	3.0	3.0	12	8.0	900	1430	1360	1230
24	194	3.0	3.0	3.0	3.0	3.0	12	8.0	893	1590	1340	1220
25	179	3.0	3.0	3.0	3.0	3.0	12	8.0	792	1330	1330	1210
26	161	3.0	3.0	3.0	3.0	3.0	12	8.0	807	1320	1340	1200
27	134	3.0	3.0	3.0	3.0	3.0	12	8.0	804	1260	1320	1190
28	136	3.0	3.0	3.0	3.0	3.0	12	8.0	792	1240	1310	1180
29	145	3.0	3.0	3.0	3.0	3.0	12	8.0	783	1340	1330	1170
30	122	3.0	3.0	3.0	---	3.0	12	8.0	873	1290	1330	1170
31	105	---	3.0	3.0	---	3.0	---	8.0	---	1290	1310	---
TOTAL	5122	509.0	93.0	93.0	87.0	93.0	180.0	272.0	25785.0	38810	41340	37850
MEAN	165	17.0	3.00	3.00	3.00	3.00	6.00	8.77	860	1252	1334	1262
MAX	409	124	3.0	3.0	3.0	3.0	12	12	1070	1590	1380	1340
MIN	61	3.0	3.0	3.0	3.0	3.0	3.0	8.0	8.0	1070	1250	1170
AC-FT	10160	1010	184	184	173	184	357	540	51140	76980	82000	75080

CAL YR 1979	TOTAL	78035.0	MEAN 214	MAX	1440	MIN 1.5	AC-FT	154800
WTR YR 1980	TOTAL	150234.0	MEAN 410	MAX	1590	MIN 3.0	AC-FT	298000

10068500 BEAR RIVER AT PESCADERO, ID

LOCATION.--Lat 42°24'06", long 111°21'22", in SW1/4SW1/4SE1/4 sec.6, T.12 S., R.44 E., Bear Lake County, Hydrologic Unit 16010202, on left bank at Pescadero, 400 ft (122 m) downstream from road bridge, 2 mi (3.2 km) downstream from Bennington Creek, and 6.5 mi (10.5 km) northwest of Montpelier.

DRAINAGE AREA.--3,705 mi^2 (9,596 km^2).

PERIOD OF RECORD.--October 1921 to September 1954. June 1969 to current year. Monthly discharge only for some periods, published in WSP 1314.

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft (1,798 m) from topographic map.

REMARKS.--Records good except those for winter months, which are fair. Flow regulated by Bear Lake (station 10055500) and diversions above station for irrigation.

AVERAGE DISCHARGE.--44 years, 596 ft^3/s (16.9 m^3/s), 431,800 acre-ft/yr (532 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,840 ft^3/s (109 m^3/s) June 10, 1923; minimum daily, 23 ft^3/s (0.65 m^3/s) Mar. 14-17, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,840 ft^3/s (52.1 m^3/s) June 8, gage height, 5.61 ft (1.716 m); minimum discharge, 58 ft^3/s (1.64 m^3/s) Oct. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	294	60	75	70	110	122	566	530	1280	1360	1410
2	94	274	75	75	70	100	145	538	572	1450	1340	1420
3	94	193	75	75	70	100	144	517	1180	1530	1340	1420
4	154	125	75	75	80	100	131	504	1410	1560	1340	1450
5	199	120	75	75	80	100	130	488	1680	1570	1350	1460
6	194	119	75	75	80	100	148	481	1800	1550	1410	1460
7	190	120	75	75	80	110	152	522	1830	1480	1440	1460
8	184	119	75	75	80	110	141	565	1830	1460	1460	1450
9	111	108	75	75	80	110	141	580	1800	1440	1460	1440
10	70	83	75	75	80	110	155	602	1780	1410	1460	1430
11	64	99	75	75	80	110	165	606	1740	1400	1450	1440
12	65	83	75	75	80	110	174	605	1660	1450	1460	1450
13	68	86	75	80	80	110	192	616	1610	1500	1460	1440
14	68	87	75	90	80	110	235	605	1590	1450	1450	1420
15	66	88	75	90	80	111	318	578	1560	1480	1440	1390
16	70	94	75	90	80	115	429	606	1530	1490	1480	1360
17	64	94	75	90	80	120	502	623	1500	1500	1500	1340
18	60	85	75	80	80	125	618	571	1450	1460	1490	1340
19	220	80	75	80	90	130	820	559	1390	1470	1480	1330
20	372	70	75	80	100	110	975	522	1370	1430	1480	1320
21	428	75	75	80	110	110	1060	493	1310	1400	1480	1310
22	355	75	75	80	110	110	1010	476	1310	1410	1470	1310
23	375	75	75	80	110	110	903	477	1300	1440	1450	1320
24	362	75	75	80	110	115	927	492	1270	1430	1430	1320
25	362	75	75	80	110	120	976	556	1160	1390	1410	1300
26	355	75	75	80	110	128	885	600	1120	1440	1410	1300
27	346	60	75	70	110	133	756	605	1090	1420	1390	1290
28	324	60	75	70	110	135	660	586	1080	1360	1390	1280
29	321	60	75	70	110	135	605	562	1060	1390	1400	1270
30	312	60	75	70	---	135	568	607	1070	1390	1430	1260
31	306	---	75	70	---	142	---	576	---	1360	1420	---
TOTAL	6369	3111	2310	2410	2590	3574	14187	17284	41582	44790	44330	41190
MEAN	205	104	74.5	77.7	89.3	115	473	558	1386	1445	1430	1373
MAX	428	294	75	90	110	142	1060	623	1830	1570	1500	1460
MIN	60	60	60	70	70	100	122	476	530	1280	1340	1260
AC-FT	12630	6170	4580	4780	5140	7090	28140	34280	82480	88840	87930	81700

CAL YR 1979 TOTAL 120107 MEAN 329 MAX 1530 MIN 60 AC-FT 238200
WTR YR 1980 TOTAL 223727 MEAN 611 MAX 1830 MIN 60 AC-FT 443800

10072800 EIGHTMILE CREEK NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°32'15", long 111°34'20", in SE1/4 sec.20, T.10 S., R.42 E., Bear Lake County, Hydrologic Unit 16010202, on right bank just below Wilson Creek, 15 ft (5 m) below roadbridge, 0.3 mi (0.5 km) north of Eightmile Ranger Station, and 8.4 mi (13.5 km) south of Soda Springs.

DRAINAGE AREA.--22.6 mi^2 (58.5 km^2).

PERIOD OF RECORD.--October 1960 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 6,170 ft (1,881 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 16.7 ft^3/s (0.473 m^3/s), 12,100 acre-ft/yr (14.9 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 209 ft^3/s (5.92 m^3/s) June 14, 1978, gage height, 2.39 ft (0.728 m); minimum, 0.73 ft^3/s (0.021 m^3/s) Nov. 17, 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114 ft^3/s (3.23 m^3/s) May 8, gage height, 2.42 ft (0.738 m); minimum, 1.6 ft^3/s (0.045 m^3/s) Mar. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	3.8	3.6	3.0	3.6	2.9	2.8	54	51	41	16	8.1
2	4.1	3.8	3.6	3.0	3.6	3.0	2.9	56	61	39	16	8.0
3	4.2	4.2	3.8	3.0	3.4	3.1	2.9	57	74	38	15	7.3
4	4.3	4.3	3.8	3.0	3.1	3.0	2.9	61	73	36	14	7.4
5	4.2	4.3	3.8	3.0	2.8	3.0	3.2	65	75	35	14	7.3
6	4.2	4.2	4.0	3.1	2.8	3.0	3.2	76	74	34	13	7.3
7	4.1	4.2	4.0	3.2	2.8	2.9	3.0	76	70	33	13	7.6
8	4.0	4.0	4.0	3.2	2.8	3.0	3.0	86	67	32	13	8.0
9	4.0	3.8	3.8	3.2	2.8	3.0	3.0	94	65	31	13	7.3
10	4.0	3.7	3.7	3.0	3.0	3.0	3.0	87	71	30	12	7.3
11	4.0	4.1	3.2	3.2	3.0	3.0	3.1	81	80	29	12	8.8
12	4.0	3.6	3.4	3.3	3.0	2.9	3.2	77	88	28	12	8.7
13	4.0	3.7	3.6	3.6	3.0	2.9	3.6	68	87	27	11	7.8
14	4.0	3.6	3.6	3.8	3.0	3.0	4.6	62	85	26	11	7.1
15	4.4	3.7	3.5	3.8	3.2	3.0	6.2	57	79	25	13	7.0
16	4.4	3.8	3.5	3.8	3.3	2.6	7.5	61	75	24	12	6.8
17	4.2	4.2	3.4	3.8	3.0	2.6	9.6	56	71	23	11	6.7
18	4.4	4.2	3.4	3.8	3.7	2.9	14	53	69	23	11	6.5
19	9.0	3.7	3.4	3.6	3.8	2.8	19	51	69	22	11	6.4
20	6.0	3.2	3.2	3.5	3.5	2.8	26	56	68	21	10	6.4
21	5.1	3.0	3.0	3.6	3.5	2.8	32	65	67	21	9.9	6.7
22	5.0	2.9	3.0	3.5	3.3	2.7	40	75	63	20	9.6	6.5
23	4.9	3.1	3.0	3.6	3.1	2.7	41	86	57	20	9.3	6.4
24	4.8	3.2	3.1	3.6	3.0	2.7	43	88	52	20	9.1	6.4
25	4.5	3.4	3.2	3.5	2.9	2.8	43	83	50	19	8.9	6.2
26	4.6	3.4	3.1	3.4	2.9	2.7	44	70	45	19	8.9	6.1
27	4.3	3.6	3.0	3.4	3.0	2.9	42	62	43	18	8.5	6.0
28	4.3	3.4	3.0	3.3	3.0	2.9	43	58	40	17	8.4	5.9
29	4.3	3.5	3.0	3.6	3.0	2.9	47	56	40	17	8.1	5.8
30	4.1	3.6	3.0	3.6	---	3.0	53	50	39	17	8.2	5.8
31	4.0	---	3.0	3.6	---	2.9	---	52	---	17	8.7	---
TOTAL	139.4	111.2	105.7	105.6	90.9	89.4	554.7	2079	1948	802	350.6	209.6
MEAN	4.50	3.71	3.41	3.41	3.13	2.88	18.5	67.1	64.9	25.9	11.3	6.99
MAX	9.0	4.3	4.0	3.8	3.8	3.1	53	94	88	41	16	8.8
MIN	4.0	2.9	3.0	3.0	2.8	2.6	2.8	50	39	17	8.1	5.8
AC-FT	276	221	210	209	180	177	1100	4120	3860	1590	695	416

CAL YR 1979 TOTAL 3876.3 MEAN 10.6 MAX 59 MIN 2.3 AC-FT 7690
WTR YR 1980 TOTAL 6586.1 MEAN 18.0 MAX 94 MIN 2.6 AC-FT 13060

10075000 BEAR RIVER AT SODA SPRINGS, ID

LOCATION.--Lat 42°36'50", long 111°34'58", in NW1/4SW1/4NW1/4 sec.29, T.9 S., R.42 E., Caribou County, Hydrologic Unit 16010202, on left bank 800 ft (244 m) upstream from Bailey Creek road bridge and 2 mi (3 km) south of Soda Springs.

DRAINAGE AREA.--3,972 mi^2 (10,287 km^2).

PERIOD OF RECORD.--May to September 1896, May, June 1898, and October 1953 to current year in reports of Geological Survey. Irrigation season only during 1944-49, 1951-53 in reports of Bear River Hydrometric Data (Geologic Survey open-file report).

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,760 ft (1,756 m) from topographic map. May 25 to Oct. 2, 1896, May 22 to July 1, 1898, staff gage at different datum. During irrigation season 1944-49, 1950-53, water-stage recorder at site 800 ft (244 m) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Natural flow of stream affected by upstream reservoirs, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--27 years, 638 ft^3/s (18.1 m^3/s), 462,200 acre-ft/yr (570 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,380 ft^3/s (181 m^3/s) June 9, 15, 1896, gage height, 8.40 ft (2.560 m), datum then in use; minimum, 41 ft^3/s (1.16 m^3/s) Nov. 16, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,250 ft^3/s (63.7 m^3/s) June 6, gage height, 5.60 ft (1.707 m); minimum, 41 ft^3/s (1.16 m^3/s) Nov. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	267	106	130	101	133	177	949	981	1230	1430	1360
2	159	253	111	128	101	131	177	892	1040	1410	1410	1360
3	142	226	117	115	92	108	184	867	1630	1510	1390	1350
4	156	161	118	105	92	103	188	865	1910	1550	1380	1370
5	207	134	107	92	106	101	206	839	2060	1570	1390	1380
6	234	128	104	90	108	111	234	847	2220	1540	1410	1390
7	227	123	104	87	110	112	238	923	2200	1480	1450	1390
8	218	118	107	77	112	121	231	993	2160	1450	1440	1390
9	199	114	103	78	114	119	245	1040	2100	1430	1460	1380
10	136	99	102	84	122	108	265	1070	2040	1420	1460	1380
11	104	84	101	90	109	112	281	1060	1990	1390	1450	1400
12	98	85	100	92	114	109	299	1080	1920	1390	1450	1440
13	97	76	98	113	117	122	323	1070	1850	1450	1440	1410
14	97	70	96	137	121	122	384	1020	1820	1430	1440	1390
15	97	72	94	152	114	118	503	970	1800	1410	1440	1360
16	100	71	92	151	93	123	672	1030	1760	1440	1460	1340
17	97	84	92	136	88	128	828	1100	1720	1450	1480	1320
18	91	78	92	160	113	138	982	1040	1640	1420	1490	1310
19	143	67	90	159	130	147	1260	965	1560	1410	1460	1310
20	326	67	88	130	134	122	1490	942	1500	1400	1460	1300
21	425	77	93	126	145	121	1540	909	1460	1370	1450	1300
22	370	86	95	123	130	121	1450	904	1420	1360	1450	1290
23	349	89	101	119	120	125	1330	924	1400	1430	1440	1300
24	349	89	108	116	127	133	1330	977	1330	1470	1410	1310
25	338	89	112	107	123	137	1290	1000	1260	1490	1390	1300
26	332	83	117	110	115	144	1180	1040	1190	1490	1390	1300
27	326	87	121	103	121	148	1040	1040	1160	1510	1370	1290
28	310	89	120	101	119	150	956	1000	1130	1460	1360	1290
29	289	94	109	99	116	141	988	999	1120	1450	1370	1280
30	274	99	130	100	---	174	989	1020	1120	1460	1380	1280
31	276	---	131	101	---	159	---	1020	---	1450	1370	---
TOTAL	6784	3259	3259	3511	3307	3941	21260	30395	48491	44720	44170	40270
MEAN	219	109	105	113	114	127	709	980	1616	1443	1425	1342
MAX	425	267	131	160	145	174	1540	1100	2220	1570	1490	1440
MIN	91	67	88	77	88	101	177	839	981	1230	1360	1280
AC-FT	13460	6460	6460	6960	6560	7820	42170	60290	96180	88700	87610	79880

CAL YR 1979 TOTAL 149613 MEAN 410 MAX 1580 MIN 67 AC-FT 296800
WTR YR 1980 TOTAL 253367 MEAN 692 MAX 2220 MIN 67 AC-FT 502600

10076400 SODA CREEK AT FIVEMILE MEADOWS, NEAR SODA SPRINGS, ID

LOCATION.--Lat 42°43'45", long 111°36'55", in SE1/4NW1/4 sec.13, T.8 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 100 ft (30 m) southeast of Lau ranchhouse, 150 ft (46 m) downstream from Schmidt ditch, and 5 mi (8.0 km) north of Soda Springs.

DRAINAGE AREA.--51.7 mi^2 (133.9 km^2).

PERIOD OF RECORD.--October 1964 to current year. April 1923 to October 1926 at this site published as "at Lau ranch"; records not equivalent owing to diversion in Schmidt ditch during irrigation season.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,980 ft (1,822 m) from topographic map. April 1923 to October 1926 at different datum and Oct. 1, 1964 to Aug. 26, 1965 at site 400 ft (122 m) upstream at different datum.

REMARKS.--Records good except during winter months, which are poor. Records herein include flow in Schmidt ditch.

AVERAGE DISCHARGE.--16 years, 16.3 ft^3/s (0.462 m^3/s), 11,810 acre-ft/yr (14.6 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 121 ft^3/s (3.43 m^3/s) Apr. 14, 1976; maximum gage height, 4.01 ft (1.222 m) Apr. 2, 1965, site and datum then in use; no flow Dec. 24, 1966, Feb. 17, Nov. 11, 12, 1978, Mar. 30, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 119 ft^3/s (3.37 m^3/s) Apr. 18, gage height, 1.92 ft (0.585 m); no flow Mar. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	3.7	2.1	.50	.50	1.2	1.2	25	25	18	14	15
2	3.8	3.7	2.0	.50	.50	1.2	1.2	22	26	18	14	15
3	3.8	3.8	2.0	.50	.50	1.2	1.2	22	27	18	14	15
4	3.8	4.0	2.0	.50	.50	1.3	1.2	22	26	18	14	15
5	3.8	4.0	2.0	.50	.50	1.4	1.6	20	27	18	14	15
6	3.8	3.8	2.0	.50	.50	1.4	1.5	20	32	17	14	15
7	3.8	4.2	2.0	.50	.50	1.4	1.4	21	31	16	14	15
8	3.8	4.5	2.0	.50	.50	1.4	1.6	22	27	18	14	16
9	3.6	4.5	2.0	.50	.50	1.4	1.7	26	24	16	14	16
10	3.5	4.5	2.0	.50	.50	1.4	1.8	28	24	16	14	16
11	3.5	4.4	1.9	.50	.50	1.4	1.8	29	23	16	14	17
12	3.5	4.3	1.8	.50	.50	1.4	1.8	38	22	18	14	17
13	3.5	4.3	1.7	.50	.50	1.4	1.6	38	22	18	14	17
14	3.5	3.9	1.6	.50	.60	1.5	2.4	31	22	18	14	16
15	3.7	3.9	1.5	.50	.70	1.5	4.4	27	22	18	14	16
16	3.5	3.8	1.5	.50	.80	1.5	13	28	21	18	16	16
17	3.4	3.8	1.5	.50	.90	1.5	30	35	20	17	14	16
18	3.6	3.9	1.4	.50	1.0	1.5	75	32	20	17	14	16
19	4.6	3.3	1.3	.50	1.1	1.5	93	28	20	17	16	17
20	4.3	2.8	1.2	.50	1.2	1.5	84	24	20	16	14	17
21	4.1	2.6	1.2	.50	1.2	1.5	55	24	18	16	14	17
22	4.0	2.5	1.2	.50	1.1	1.6	32	22	18	16	16	17
23	3.8	2.5	1.2	.50	1.0	1.7	25	24	18	15	16	17
24	3.8	2.5	1.2	.50	1.0	1.7	29	24	18	15	14	17
25	3.6	2.5	1.1	.50	1.0	1.7	26	24	18	15	14	16
26	3.9	2.5	1.0	.56	1.0	1.7	24	25	18	14	16	16
27	3.7	2.5	.90	.50	1.0	1.5	21	24	17	14	16	16
28	3.7	2.4	.80	.50	1.1	1.4	21	23	17	14	15	16
29	3.7	2.3	.70	.50	1.2	1.4	22	23	17	14	15	16
30	3.7	2.2	.60	.50	---	1.2	25	23	17	14	15	16
31	3.9	---	.50	.50	---	1.2	---	23	---	14	15	---
TOTAL	116.5	103.6	45.90	15.56	22.40	44.6	607.4	797	657	507	450	482
MEAN	3.76	3.45	1.48	.50	.77	1.44	20.2	25.7	21.9	16.4	14.5	16.1
MAX	4.6	4.5	2.1	.56	1.2	1.7	93	38	32	18	16	17
MIN	3.4	2.2	.50	.50	.50	1.2	1.2	20	17	14	14	15
AC-FT	231	205	91	31	44	88	1200	1580	1300	1010	893	956

CAL YR 1979 TOTAL 2794.40 MEAN 7.66 MAX 50 MIN .50 AC-FT 5540
WTR YR 1980 TOTAL 3848.96 MEAN 10.5 MAX 93 MIN .50 AC-FT 7630

10079500 BEAR RIVER AT ALEXANDER, ID

LOCATION.--Lat 42°38'42", long 111°41'51", in NE1/4SW1/4NW1/4 sec.17, T.9 S., R.41 E., Caribou County, Hydrologic Unit 16010202, on right bank 600 ft (183 m) downstream from Soda hydroelectric plant of Utah Power & Light Co., 0.5 mi (0.8 km) southeast of Alexander, and 5 mi (8 km) downstream from Soda Creek.

DRAINAGE AREA.--4,099 mi^2 (10,616 km^2).

PERIOD OF RECORD.--March 1911 to current year. Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,650 ft (1,722 m) from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--69 years, 771 ft^3/s (21.8 m^3/s), 558,600 acre-ft/yr (689 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 4,740 ft^3/s (139 m^3/s) Mar. 31, 1911; maximum gage height, 15.95 ft (4.862 m) Dec. 11, 1919 (backwater from ice); minimum discharge, 15 ft^3/s (0.42 m^3/s) Aug. 24, 1979, when reservoir gates were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,330 ft^3/s (66.0 m^3/s) June 6, gage height, 3.30 ft (1.006 m); minimum daily, 23 ft^3/s (0.651 m^3/s) Jan. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	313	443	79	35	178	393	385	1050	1030	1270	1460	1430
2	263	408	75	243	100	417	534	1040	1180	1390	1440	1490
3	248	389	82	188	138	467	528	947	1620	1560	1420	1560
4	245	331	65	123	253	499	505	958	2050	1610	1410	1570
5	311	287	40	23	207	490	584	957	2130	1630	1400	1550
6	346	287	77	86	253	478	556	929	2230	1640	1390	1550
7	321	290	62	113	253	477	571	947	2270	1630	1370	1560
8	343	292	62	86	253	280	577	1080	2280	1630	1450	843
9	346	295	72	104	196	336	572	1150	2220	1630	1550	1420
10	252	164	63	93	232	472	559	1180	2140	1500	1550	1410
11	216	187	76	40	253	434	558	1190	2150	1470	1550	1430
12	216	237	99	146	409	435	460	1150	2110	1450	1550	1580
13	217	242	60	119	471	439	146	1170	1960	1470	1540	1620
14	213	231	81	129	428	415	580	1130	1890	1480	1510	1620
15	205	94	63	36	428	94	726	1040	1880	1490	1510	1610
16	217	112	65	250	442	134	880	1080	1860	1490	1480	1490
17	217	137	69	280	438	274	1030	1260	1840	1490	1460	1400
18	218	94	122	285	594	296	1020	1130	1710	1480	1520	1390
19	233	91	215	283	239	404	1000	1040	1670	1490	1570	1390
20	666	91	214	297	116	410	1000	1010	1500	1490	1560	1350
21	681	132	218	299	110	447	1480	934	1460	1400	1570	1320
22	534	84	60	298	145	233	1910	893	1480	1360	1560	1310
23	472	114	62	323	111	227	1660	908	1420	1370	1550	1310
24	487	110	76	348	154	390	1490	1020	1370	1360	1540	1310
25	506	85	71	147	107	436	1490	1030	1320	1370	1540	1300
26	500	80	208	146	187	331	1400	1050	1330	1370	1540	1300
27	490	75	204	303	430	427	1210	1080	1290	1380	1540	1310
28	485	112	178	255	437	264	1090	979	1220	1440	1540	1300
29	489	101	82	319	494	107	981	965	1230	1400	1480	1300
30	433	74	37	201	---	304	946	1030	1220	1450	1460	1260
31	538	---	201	223	---	388	---	1030	---	1450	1450	---
TOTAL	11221	5669	3138	5821	8056	11198	26428	32357	51060	45640	46460	42283
MEAN	362	189	101	188	278	361	881	1044	1702	1472	1499	1409
MAX	681	443	218	348	594	499	1910	1260	2280	1640	1570	1620
MIN	205	74	37	23	100	94	146	893	1030	1270	1370	843
AC-FT	22260	11240	6220	11550	15980	22210	52420	64180	101300	90530	92150	83870

CAL YR 1979 TOTAL 191540 MEAN 525 MAX 1760 MIN 37 AC-FT 379900
WTR YR 1980 TOTAL 289331 MEAN 791 MAX 2280 MIN 23 AC-FT 573900

10084500 COTTONWOOD CREEK NEAR CLEVELAND, ID

LOCATION.--Lat 42°19'57", long 111°46'27", in SW1/4 sec.34, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 500 ft (152 m) upstream from Cleveland irrigation canal, 2.5 mi (4.0 km) west of Cleveland, and 4 mi (6 km) downstream from proposed Cottonwood Dam.

DRAINAGE AREA.--61.7 mi^2 (159.8 km^2).

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,150 ft (1,570 m) from topographic map. Prior to Dec. 29, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good. A few small diversions for irrigation of meadowland in Cottonwood Valley above station. Treasureton Canal diverts from Cottonwood Creek 10.1 mi (16.3 km) above station for irrigation in Battle Creek basin in vicinity of Treasureton.

AVERAGE DISCHARGE.--41 years, 31.4 ft^3/s (0.890 m^3/s), 22,700 acre-ft/yr (28.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 788 ft^3/s (22.3 m^3/s) May 16, 1975, gage height, 4.01 ft (1.222 m); minimum, no flow Feb. 19, 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 200 ft^3/s (5.66 m^3/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage Height (ft)	Gage Height (m)
Apr. 21	2400	560	15.9	3.60	1.097
Apr. 24	0300	*630	17.8	3.72	1.134
May 9	2300	222	6.29	2.80	.853
May 16	1900	214	6.06	2.78	.847

Minimum discharge, 2.4 ft^3/s (0.068 m^3/s) Oct. 1-4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	5.2	5.5	6.8	10	18	17	205	110	22	11	8.2
2	2.4	5.7	5.5	6.9	10	18	17	200	126	25	9.8	6.9
3	2.5	6.6	5.7	6.6	9.8	18	18	174	168	24	9.4	6.6
4	2.5	6.1	6.5	6.6	9.1	18	18	170	137	33	10	6.7
5	2.6	7.2	6.8	6.6	8.5	17	23	172	144	22	10	6.7
6	2.6	7.2	7.0	6.7	8.7	16	30	157	145	18	9.7	6.5
7	2.6	7.2	7.2	6.6	8.3	16	27	158	140	16	9.7	7.3
8	2.7	7.1	7.3	6.6	8.0	16	27	149	124	16	9.5	11
9	2.9	7.0	7.3	6.8	8.1	15	31	182	116	15	9.2	10
10	2.9	6.8	7.6	7.2	8.5	15	34	180	108	14	9.0	9.8
11	2.9	7.3	7.3	7.0	8.6	16	33	165	101	15	8.9	15
12	2.9	7.1	6.8	7.3	8.6	15	41	170	94	15	8.6	22
13	2.9	7.6	6.5	8.0	8.4	16	56	163	88	15	8.4	16
14	2.9	7.5	6.6	10	8.5	16	84	145	83	15	8.0	9.9
15	3.0	7.4	6.8	15	8.9	16	117	131	82	16	12	8.1
16	3.2	7.2	6.6	17	9.0	15	139	159	76	15	12	7.3
17	3.2	7.9	7.0	18	9.3	15	172	174	70	15	12	7.0
18	3.3	8.1	7.0	18	15	16	221	155	65	13	9.3	6.8
19	5.0	7.8	7.3	16	20	16	269	144	61	12	9.3	6.7
20	8.1	7.1	7.3	13	27	15	330	138	57	13	9.8	9.2
21	6.5	7.0	7.3	12	28	17	351	134	49	14	8.9	11
22	5.6	6.3	7.4	12	23	16	402	131	40	13	8.2	12
23	5.2	6.1	7.4	12	18	18	332	133	38	13	7.9	11
24	5.2	6.1	7.4	13	16	19	372	145	33	13	9.1	11
25	4.3	6.0	7.0	13	16	18	275	136	31	14	9.0	10
26	4.6	6.0	7.0	12	16	17	262	125	29	11	9.7	10
27	4.9	6.0	7.0	12	17	18	237	112	28	11	8.4	10
28	5.0	6.0	7.0	10	20	17	216	101	24	13	8.0	9.9
29	5.1	5.8	7.0	9.8	19	17	232	106	22	9.3	7.5	9.9
30	5.0	5.7	7.0	10	---	19	234	102	22	10	7.2	9.8
31	5.2	---	6.8	10	---	19	---	101	---	13	7.5	---
TOTAL	120.1	202.1	213.9	322.5	385.3	518	4617	4617	2414	483.3	287.0	292.3
MEAN	3.87	6.74	6.90	10.4	13.3	16.7	154	149	80.5	15.6	9.26	9.74
MAX	8.1	8.1	7.6	18	28	19	402	205	168	33	12	22
MIN	2.4	5.2	5.5	6.6	8.0	15	17	101	22	9.3	7.2	6.5
AC-FT	238	401	424	640	764	1030	9160	9160	4790	959	569	580

CAL YR 1979 TOTAL 8247.9 MEAN 22.6 MAX 206 MIN 2.4 AC-FT 16360
WTR YR 1980 TOTAL 14472.5 MEAN 39.5 MAX 402 MIN 2.4 AC-FT 28710

10086500 BEAR RIVER BELOW UTAH POWER & LIGHT CO.'S TAILRACE, AT ONEIDA, ID

LOCATION.--Lat 42°16'00", long 111°45'04", in NE1/4SE1/4NW1/4 sec.26, T.12 S., R.40 E., Franklin County, Hydrologic Unit 16010202, on right bank 200 ft (61 m) downstream from tailrace of Oneida plant and 6 mi (10 km) south of Cleveland.

DRAINAGE AREA.--4,456 mi^2 (11,541 km^2).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only October 1921 to September 1945, published in WSP 1314.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft (1,460 m) from topographic map.

REMARKS.--Records good. Natural flow of stream affected by upstream reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

COOPERATION.--Records collected by Utah Power & Light Co., under general supervision of Geological Survey, in connection with a Federal Power Commission project.

AVERAGE DISCHARGE.--59 years, 827 ft^3/s (23.4 m^3/s), 599,200 acre-ft/yr (739 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,480 ft^3/s (155 m^3/s) May 8, 1922; minimum, 3.0 ft^3/s (0.085 m^3/s) June 13, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,290 ft^3/s (93.2 m^3/s) Aug. 26, gage height, 6.87 ft (2,094 m); minimum, 9.5 ft^3/s (0.269 m^3/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	887	153	39	428	631	513	1430	1570	992	1360	1980
2	1010	899	270	382	210	508	677	1570	1430	1290	1230	1480
3	322	433	71	567	503	766	369	1620	2310	675	1040	1990
4	617	577	458	272	323	964	889	1390	2580	1290	1450	2060
5	326	537	112	510	394	777	727	1510	2050	1520	823	2100
6	253	684	250	433	304	869	417	1440	2620	1370	1660	2020
7	473	605	92	592	393	674	667	956	2510	1390	957	1510
8	82	229	499	285	648	595	644	1650	2820	1180	1040	2010
9	425	537	414	287	485	516	271	1220	3040	1300	1450	1540
10	390	338	269	342	412	725	701	2050	2720	1430	1390	42
11	39	710	525	488	379	383	804	1690	2690	1130	1450	39
12	391	384	422	449	355	825	487	1870	2560	1200	1520	898
13	140	756	199	1330	208	563	477	1970	2220	1010	847	2750
14	91	245	177	1720	844	835	593	1400	2460	1330	1720	2720
15	390	427	216	1150	530	402	820	1930	1920	1060	1250	2650
16	167	577	164	474	615	503	824	1090	2620	1570	1530	2160
17	341	261	177	459	856	664	1250	2090	1910	850	1060	45
18	348	343	228	921	1440	228	1930	1920	2280	1150	1790	173
19	952	441	275	564	1340	738	1450	1600	1900	1260	1290	1750
20	844	187	140	469	856	204	1270	1160	2080	1280	1270	1720
21	147	342	335	655	248	703	1510	2050	1360	1060	1600	2090
22	800	82	716	470	620	391	2120	947	1830	1350	1530	2160
23	589	196	580	451	486	489	2670	1340	1240	1190	1510	525
24	766	397	685	548	322	513	2280	1680	1660	1050	1730	1140
25	1160	166	169	620	252	753	2170	1740	1510	945	1460	2000
26	452	150	299	855	355	276	2090	1270	582	687	1310	893
27	449	99	258	439	207	607	775	1240	1130	1180	1480	2310
28	758	549	491	665	561	339	950	1420	1260	1270	1920	2070
29	828	188	237	281	784	531	1920	1680	1160	878	1410	1800
30	408	203	127	269	---	252	1330	1060	826	1430	1480	874
31	213	---	167	210	---	338	---	1770	---	1070	1590	---
TOTAL	14286	12429	9175	17196	15358	17562	33595	47753	58848	36387	43147	47499
MEAN	461	414	296	555	530	567	1120	1540	1962	1174	1392	1583
MAX	1160	899	716	1720	1440	964	2670	2090	3040	1570	1920	2750
MIN	39	82	71	39	207	204	271	947	582	675	823	39
AC-FT	28340	24650	18200	34110	30460	34830	66640	94720	116700	72170	85580	94210

CAL YR 1979 TOTAL 211883 MEAN 581 MAX 1670 MIN 39 AC-FT 420300
WTR YR 1980 TOTAL 353235 MEAN 965 MAX 3040 MIN 39 AC-FT 700600

10090500 BEAR RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°10'05", long 111°50'59", in NW1/4 sec.36, T.14 S., R.39 E., Franklin County, Hydrologic Unit 16010202, on left bank 600 ft (183 m) downstream from headgates of West Cache Canal, 5 mi (8 km) downstream from Mink Creek, 5 mi (8 km) north of Preston, and 5.5 mi (8 km) upstream from Battle Creek.

DRAINAGE AREA.--4,545 mi^2 (11,772 km^2).

PERIOD OF RECORD.--October 1889 to December 1916, January to September 1917 (gage heights only), October 1943 to current year. Prior to 1903 published as "at Battlecreek". Monthly discharge only for some periods, published in WSP 1314.

REVISED RECORDS.--WSP 205: 1905-7. WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,524.8 ft (1,379.16 m) National Geodetic Vertical Datum of 1929, unadjusted. October 1889 to September 1917, nonrecording gages at several sites within 5 mi (8 km) downstream at different datums.

REMARKS.--Records good except for period of no gage-height record, which are fair. Station is below all irrigation diversions from Bear River in Idaho except Cub River pumps in SE1/4 sec.20, T.16 S., R.39 E. Natural flow of stream affected by storage reservoirs, power development, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--37 years (water years 1944-80), 866 ft^3/s (24.5 m^3/s), 627,400 acre-ft/yr (774 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD (Since 1943).--Maximum discharge, 4,420 ft^3/s (125 m^3/s) Apr. 17, 1950, gage height, 5.61 ft (1.710 m); no flow Sept. 10-11, 1980.

1889-1917: Maximum flood occurred June 9, 10, 1907 about 8,500 ft^3/s (241 m^3/s), estimated on basis of records for downstream station Bear River near Collinston (station 10118000), site and datum then in use. Maximum gage height observed, 9.04 ft (2.755 m) Jan. 17, 18, 1917 (backwater from ice), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,840 ft^3/s (109 m^3/s) June 3, gage height, 5.11 ft (1.558 m); no flow Sept. 10 and 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	629	219	94	363	935	584	1370	1990	648	1280	1650
2	780	868	288	293	375	661	737	1900	2060	1230	1110	1190
3	471	482	81	626	308	605	388	2310	3120	727	839	1800
4	501	631	336	335	459	1000	948	1390	3260	1300	1220	2030
5	431	569	175	308	361	855	671	1970	2700	1240	758	1980
6	266	707	179	519	455	894	840	1460	3180	1640	1460	1670
7	454	523	143	377	229	669	752	1390	3290	1030	747	1590
8	85	251	318	479	614	701	661	1840	3280	1090	689	1480
9	511	465	391	327	526	510	442	1390	3620	1490	1240	1520
10	310	297	404	265	660	748	719	2410	3290	1060	1090	320
11	42	649	438	416	340	523	1010	1940	3320	957	1200	178
12	355	634	381	399	391	788	381	2310	3200	1380	1280	1660
13	134	707	206	1080	338	681	521	2180	2890	887	547	2170
14	76	338	134	1860	498	683	661	1750	2970	1320	1410	2120
15	372	506	226	1840	872	626	894	2430	2470	820	926	2170
16	388	505	135	633	557	531	1010	1360	3110	1410	1140	1010
17	292	284	187	577	793	521	1030	2640	2350	753	867	1.7
18	435	296	187	616	1100	487	2040	2470	2650	1300	1360	377
19	1080	406	212	885	2040	682	1440	1840	2380	1020	1040	2080
20	504	117	136	417	1470	225	1600	1490	2310	1020	1000	1590
21	481	290	315	688	601	685	1790	2700	1580	1190	1350	1940
22	720	182	716	582	430	262	1970	1210	2050	1000	1420	1550
23	711	54	520	293	775	580	2970	1850	1770	1110	1190	463
24	877	479	469	885	495	530	2760	2160	1890	867	1530	1220
25	885	113	403	284	449	799	2610	2270	1560	882	1130	2010
26	440	146	217	664	252	325	2080	1960	1080	509	1220	754
27	590	124	282	805	359	561	2490	1600	777	1070	1250	2130
28	847	401	208	583	504	373	1430	1670	1600	1140	1650	1890
29	787	231	449	586	563	492	2230	2050	931	769	1150	1680
30	303	247	149	346	---	331	1520	1490	1150	1190	1270	833
31	434	---	207	313	---	401	---	2180	---	937	1380	---
TOTAL	14736	12131	8711	18375	17177	18664	39179	58980	71828	32986	35743	43056.7
MEAN	475	404	281	593	592	602	1306	1903	2394	1064	1153	1435
MAX	1080	868	716	1860	2040	1000	2970	2700	3620	1640	1650	2170
MIN	42	54	81	94	229	225	381	1210	777	509	547	1.7
AC-FT	29230	24060	17280	36450	34070	37020	77710	117000	142500	65430	70900	85400

CAL YR 1979 TOTAL 207384.0 MEAN 568 MAX 1970 MIN 14 AC-FT 411300
WTR YR 1980 TOTAL 371566.7 MEAN 1015 MAX 3620 MIN 1.7 AC-FT 737000

10092700 BEAR RIVER AT IDAHO-UTAH STATE LINE

LOCATION.--Lat 42°00'47", long 111°55'14", in NW1/4NE1/4 sec.29, T.16 S., R.39 E., Franklin County, Idaho, Hydrologic Unit 16010202, on left bank 1,050 ft (320 m) downstream from inlet canal to Cub River pumps, 1.1 mi (1.8 km) downstream from Weston Creek, 1.8 mi (2.9 km) upstream from State line, and 3.5 mi (5.6 km) southeast of Weston.

DRAINAGE AREA.--4,881 mi^2 (12,642 km^2).

PERIOD OF RECORD.--October 1970 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,347 m) from topographic map.

REMARKS.--Records poor. Natural flow of stream affected by storage reservoirs, power developments, diversions for irrigation, and return flow from irrigated areas.

AVERAGE DISCHARGE.--10 years, 1,205 ft^3/s (34.1 m^3/s), 873,000 acre-ft/yr (1.08 km^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,190 ft^3/s (119 m^3/s) June 12, 1971, gage height, 8.25 ft (2.515 m); minimum observed, 73 ft^3/s (2.07 m^3/s) June 29, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,050 ft^3/s (115 m^3/s) June 4, gage height, 7.33 ft (2.234 m); minimum observed, 106 ft^3/s (3.00 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	710	300	260	450	1010	600	1240	2090	665	1190	1910
2	350	1150	300	200	450	843	802	2150	2260	1240	1020	1400
3	900	325	220	360	400	859	741	2120	3280	1070	1000	1890
4	450	430	200	630	550	1070	550	1240	3920	900	950	2260
5	670	700	375	300	450	972	970	2280	3440	1250	670	1680
6	380	725	150	550	510	1090	675	1300	3250	1710	1200	1830
7	360	939	320	450	320	973	980	2160	3570	1150	800	1560
8	360	250	150	500	680	892	702	1300	3440	1290	700	1830
9	390	400	460	400	620	575	725	1930	3890	1350	1100	1300
10	450	500	650	350	725	780	600	2240	3720	900	1090	120
11	210	560	440	500	400	977	1270	2130	3570	1100	1150	120
12	380	753	235	752	420	650	300	2540	3470	1160	1270	1100
13	210	810	470	2020	430	1050	590	2490	3190	580	650	2630
14	150	490	180	3520	580	445	691	2020	3150	1120	1380	2680
15	400	520	270	2600	1220	996	663	2330	2930	870	1000	2610
16	170	370	150	1050	911	624	1190	2020	2990	1290	1420	2100
17	430	440	300	1010	1120	603	938	2370	2700	1100	1280	125
18	320	190	150	938	1570	640	1730	2840	2790	880	1450	125
19	934	480	300	1130	2350	630	2080	2360	2730	870	1330	1600
20	1100	290	250	671	1910	460	1720	1980	2210	1280	1420	1740
21	300	175	275	840	989	390	1710	2260	1970	1100	1410	1960
22	770	320	420	778	865	470	2060	2070	1880	680	1660	2450
23	711	115	768	430	986	460	2770	1730	2130	1400	1420	745
24	730	485	525	1000	754	590	3170	2090	1710	875	1550	1050
25	1280	115	700	400	690	720	2630	2580	1880	810	1200	1240
26	485	220	155	760	419	820	2290	2100	1410	560	1310	1650
27	540	195	270	900	603	515	2550	2080	720	1040	1440	1380
28	938	290	350	700	465	430	2200	1790	1550	850	1490	2010
29	907	390	480	700	980	530	1740	2230	1020	1000	1510	2270
30	540	240	250	450	---	460	2220	2020	1320	830	1280	1120
31	300	---	180	420	---	420	---	1870	---	945	1570	---
TOTAL	16515	13577	10243	25569	22817	21944	41857	63860	78180	31865	37910	46485
MEAN	533	453	330	825	787	708	1395	2060	2606	1028	1223	1550
MAX	1280	1150	768	3520	2350	1090	3170	2840	3920	1710	1660	2680
MIN	150	115	150	200	320	390	300	1240	720	560	650	120
AC-FT	32760	26930	20320	50720	45260	43530	83020	126700	155100	63200	75190	92200

CAL YR 1979 TOTAL 238891 MEAN 654 MAX 1970 MIN 100 AC-FT 473800
WTR YR 1980 TOTAL 410822 MEAN 1122 MAX 3920 MIN 115 AC-FT 814900

10093000 CUB RIVER NEAR PRESTON, ID

LOCATION.--Lat 42°08'28", long 111°41'19", in SW1/4 sec.5, T.15 S., R.41 E., Franklin County, Hydrologic Unit 16010202, Cache National Forest, on right bank 0.2 mi (0.3 km) upstream from headgates of Cub River-Worm Creek Canal, 0.7 mi (1.1 km) upstream from forest boundary, and 10 mi (16 km) east of Preston.

DRAINAGE AREA.--31.6 mi^2 (81.8 km^2).

PERIOD OF RECORD.--March 1940 to September 1952, October 1955 to current year.

REVISED RECORDS.--WDR UT-1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,285.1 ft (1,610.90 m) National Geodetic Vertical Datum of 1929, unadjusted.

REMARKS.--Records good except those for winter periods, which are fair.

AVERAGE DISCHARGE.--37 years, 83.9 ft^3/s (2.38 m^3/s), 60,790 acre-ft/yr (75.0 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 803 ft^3/s (22.7 m^3/s) June 11, 1971; maximum gage height, 3.83 ft (1.167 m) June 2, 1943; no flow for part of Jan. 29, 1965, result of snowslide.

EXTREMES FOR CURRENT YEAR--Maximum discharge, 628 ft^3/s (17.8 m^3/s) June 11, gage height, 2.36 ft (0.719 m); minimum, 15 ft^3/s (0.425 m^3/s) Dec. 31, Jan. 1-9, Feb. 4, 5, 8-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	23	19	15	15	23	24	369	271	215	62	39
2	24	23	19	15	15	23	23	446	364	209	61	38
3	24	23	18	15	15	24	23	387	498	198	59	38
4	25	22	18	15	15	24	24	346	450	185	58	37
5	25	22	18	15	15	23	28	388	453	171	57	37
6	25	22	18	15	15	22	33	455	474	158	58	36
7	25	22	18	15	15	21	30	448	430	149	56	36
8	25	22	18	15	15	20	29	409	441	142	55	35
9	25	21	17	15	15	19	30	426	485	136	54	36
10	25	21	17	17	15	19	31	376	559	128	53	36
11	24	21	17	16	15	19	31	286	602	122	52	38
12	24	21	17	19	15	20	35	259	593	116	52	38
13	24	20	17	20	15	20	41	229	572	111	51	36
14	24	20	17	32	15	20	47	210	532	106	50	35
15	25	20	17	24	16	21	58	203	474	101	53	35
16	25	20	17	21	16	21	66	216	417	97	50	35
17	25	20	17	20	16	21	71	216	399	94	49	34
18	25	20	17	19	23	20	84	202	395	90	48	34
19	31	20	16	19	28	20	99	206	408	88	48	33
20	27	20	16	18	29	20	126	241	429	85	47	33
21	25	19	16	18	26	21	155	322	420	81	45	33
22	25	19	17	18	23	21	169	455	402	79	44	33
23	24	19	16	17	22	23	210	519	369	77	44	32
24	24	19	16	17	20	23	230	553	334	75	44	32
25	23	19	16	17	19	25	205	422	304	73	43	32
26	23	19	16	17	19	24	228	311	283	72	42	31
27	23	19	16	16	21	24	243	264	265	71	41	31
28	23	19	16	16	23	23	254	247	255	69	40	31
29	23	19	15	15	24	23	295	252	229	67	41	30
30	23	19	15	15	---	25	304	242	219	63	40	30
31	23	---	15	15	---	24	---	254	---	62	40	---
TOTAL	761	613	522	541	535	676	3226	10159	12326	3490	1537	1034
MEAN	24.5	20.4	16.8	17.5	18.4	21.8	108	328	411	113	49.6	34.5
MAX	31	23	19	32	29	25	304	553	602	215	62	39
MIN	23	19	15	15	15	19	23	202	219	62	40	30
AC-FT	1510	1220	1040	1070	1060	1340	6400	20150	24450	6920	3050	2050

CAL YR 1979 TOTAL 24891 MEAN 68.2 MAX 566 MIN 15 AC-FT 49370
WTR YR 1980 TOTAL 35420 MEAN 96.8 MAX 602 MIN 15 AC-FT 70260

10125500 MALAD RIVER AT WOODRUFF, ID

LOCATION.--Lat 42°01'48", long 112°13'45", in NE¼NE¼ sec.22, T.16 S., R.36 E., Oneida County, Hydrologic Unit 16010204, at left abutment of highway bridge at Woodruff and 2.1 mi (3.4 km) north of Idaho-Utah State line.

DRAINAGE AREA.--472 mi² (1,220 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,355 ft (1,327 m), by barometer. Prior to Mar. 6, 1951, nonrecording gage at site 300 ft (91 m) downstream at datum 0.27 ft (0.082 m) lower. Mar. 6, 1951, to Sept. 30, 1960, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by several small reservoirs above station. Diversions above station for irrigation of 25,000 acres (10,000 hm²) to 30,000 acres (12,000 hm²).

AVERAGE DISCHARGE.--41 years (1940-80), 63.7 ft³/s (1.804 m³/s), 46,150 acre-ft/yr (56.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,530 ft³/s (71.6 m³/s) Feb. 12, 1962, gage height, 8.93 ft (2.722 m); minimum, 1.8 ft³/s (0.05 m³/s) July 14, 1964, gage height, 1.30 ft (0.396 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,330 ft³/s (66.0 m³/s) Jan. 14, gage height, 8.78 ft (2.676 m); minimum, 23 ft³/s (0.65 m³/s) Aug. 24-26, gage height, 1.99 ft (0.607 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)

2.0	23	5.0	258
2.2	32	6.0	400
2.5	49	7.5	980
3.0	81	9.0	2660
4.0	160		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	53	61	73	76	224	108	98	213	44	28	24
2	28	54	62	73	77	210	105	94	220	41	27	24
3	27	55	65	75	80	212	98	89	240	41	27	24
4	27	56	79	77	83	236	92	91	281	41	27	24
5	26	58	80	82	88	264	92	88	293	40	26	24
6	30	60	78	82	90	248	92	80	273	37	26	25
7	30	63	80	80	90	231	89	84	263	35	25	27
8	28	62	87	79	94	203	84	102	256	34	25	27
9	28	65	94	81	91	183	82	140	243	35	25	26
10	29	61	97	169	87	172	81	203	226	36	24	26
11	30	61	82	197	84	163	79	261	207	35	24	27
12	31	61	73	113	84	155	78	313	186	35	24	27
13	34	61	68	228	85	141	79	333	158	34	24	28
14	32	62	65	1500	88	130	83	315	138	34	24	31
15	34	63	63	1230	138	120	86	273	132	33	24	31
16	34	63	58	680	198	111	85	240	132	33	25	30
17	37	65	62	448	255	106	88	282	128	34	25	30
18	35	72	67	343	504	106	91	363	114	36	25	31
19	44	71	69	262	882	101	94	337	102	35	24	32
20	69	58	69	202	837	95	96	287	87	34	26	36
21	71	57	71	144	760	99	95	247	74	33	27	37
22	58	67	74	120	579	111	93	211	65	33	26	37
23	52	65	75	111	440	103	93	188	60	33	25	38
24	52	63	75	105	367	93	108	194	53	33	24	39
25	56	69	78	102	319	96	120	221	48	32	23	38
26	54	73	80	99	286	102	111	241	46	31	23	39
27	50	71	77	85	261	101	101	242	42	30	24	37
28	52	61	74	86	243	105	94	225	41	30	24	41
29	52	67	73	83	233	96	89	211	39	30	24	39
30	52	65	74	76	---	93	89	216	40	29	24	38
31	53	---	72	76	---	97	---	216	---	29	24	---
TOTAL	1264	1882	2282	7161	7499	4507	2775	6485	4400	1070	773	937
MEAN	40.8	62.7	73.6	231	259	145	92.5	209	147	34.5	24.9	31.2
MAX	71	73	97	1500	882	264	120	363	293	44	28	41
MIN	26	53	58	73	76	93	78	80	39	29	23	24
AC-FT	2510	3730	4530	14200	14870	8940	5500	12860	8730	2120	1530	1860

CAL YR 1979 TOTAL 23732 MEAN 65.0 MAX 393 MIN 17 AC-FT 47070
WTR YR 1980 TOTAL 41035 MEAN 112 MAX 1500 MIN 23 AC-FT 81390

10125500 MALAD RIVER AT WOODRUFF, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-71, 1973 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1966-69, 1973-74.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 25...	0915	57	3805	7.9	10.0	12.0	720	350	150	83	610	75
JAN 16...	0850	726	3930	--	15.0	5.0	--	--	--	--	--	--
FEB 07...	1500	90	2800	--	15.0	8.0	--	--	--	--	--	--
MAR 26...	1600	99	2850	--	9.5	10.0	--	--	--	--	--	--
MAY 13...	1535	326	1874	8.1	21.0	16.5	370	32	68	49	250	57
JUL 15...	0850	35	6500	--	16.0	22.0	--	--	--	--	--	--
SEP 09...	0907	27	9550	--	15.0	21.0	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 25...	9.9	54	370	260	970	.4	32	2380	3.24	366	.17	.050
JAN 16...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 07...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 13...	5.6	33	340	140	350	.3	26	1120	1.52	986	.78	.130
JUL 15...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--	--	--	--	--

SNAKE RIVER MAIN STEM

13011000 SNAKE RIVER NEAR MORAN, WY

LOCATION.--Lat 43°51'31", long 110°35'09", in SW¼SE¼ sec.18, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 1,000 ft (305 m) downstream from Jackson Lake Dam, 4.1 mi (6.6 km) west of Moran, and at mile 988.7 (1,590.8 km).

DRAINAGE AREA.--807 mi² (2,090 km²). Mean altitude, 8,040 ft (2,450 m).

PERIOD OF RECORD.--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "South Fork Snake River at Moran" prior to October 1910 and as "Snake River at Moran" October 1910 to September 1968.

REVISED RECORDS.--WSP 1217: 1944(m). WSP 1347: 1906-10. WRD Idaho 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,727.84 ft (2,050.646 m) National Geodetic Vertical Datum of 1929 (levels by USBR). Prior to June 13, 1917, nonrecording gage, and June 14, 1917, to May 20, 1940, water-stage recorder, at site 1.5 mi (2.4 km) downstream at different datums.

REMARKS.--Records good. Flow regulated by Jackson Lake (see sta 13010500).

COOPERATION.--Once-daily gage readings for current reporting purposes furnished by Water and Power Resources Service.

AVERAGE DISCHARGE.--77 years, 1,437 ft³/s (40.70 m³/s), 1,041,000 acre-ft/yr (1,280 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,100 ft³/s (428 m³/s) June 12, 1918, gage height, 10.41 ft (3.173 m site and datum then in use; minimum, 0.30 ft³/s (0.01 m³/s) Oct. 26, 27, 28, 1969 gage height, 0.89 ft (0.271 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood during early June 1894 was considerably higher than that of June 12, 1918.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,980 ft³/s (169 m³/s) June 25, gage height, 7.82 ft (2.384 m); minimum daily, 198 ft³/s (5.61 m³/s) Sept. 18-30.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

2.2	231	6.0	3,250
3.0	592	7.0	4,660
4.0	1,210	8.0	6,290
5.0	2,110		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	218	218	217	241	266	456	2560	2530	4120	2190	1450
2	227	218	218	217	237	267	454	2550	2690	3830	2180	1450
3	227	217	220	218	237	271	455	2550	3310	3830	2180	1440
4	227	217	219	221	234	271	462	2540	3660	3540	2190	1440
5	227	217	218	220	234	271	457	2550	3660	3350	2180	1440
6	227	217	220	221	234	273	457	2550	3670	3190	2170	1960
7	227	217	221	221	234	274	452	2560	3660	2770	2170	2570
8	227	216	221	221	234	273	452	2570	3660	2560	2170	2550
9	227	216	221	221	237	273	452	2890	3660	2560	2160	2540
10	228	216	220	221	237	272	448	3100	3660	2540	2160	2530
11	228	215	221	221	241	273	448	3100	4180	2540	2160	1040
12	227	216	221	223	241	271	443	3250	4620	2540	2150	545
13	227	216	221	224	241	270	443	3330	4630	2540	1920	305
14	227	216	221	224	241	303	443	3330	4640	2340	1780	208
15	228	216	221	224	237	383	443	3330	4660	1910	1620	208
16	230	217	221	224	241	377	443	3340	4660	1640	1500	201
17	230	217	221	224	241	376	443	3340	4660	1460	1490	201
18	229	214	221	224	244	408	463	3340	4660	1550	1490	198
19	232	215	221	224	248	482	465	3350	4970	1610	1490	198
20	230	216	221	224	254	477	470	3350	5170	1600	1490	198
21	230	217	221	224	252	474	659	3370	5170	1590	1490	198
22	229	217	217	227	253	471	1210	3800	5170	1690	1490	198
23	227	217	217	224	256	471	1470	4230	5170	1730	1490	198
24	227	217	217	224	258	468	1460	4580	5170	1860	1480	198
25	224	217	217	241	259	467	1520	4590	5510	1970	1480	198
26	221	217	217	237	260	466	2030	4910	5190	1990	1480	198
27	218	217	217	237	262	463	2460	5090	4620	1990	1480	198
28	218	217	217	237	263	462	2510	4190	4530	1980	1470	198
29	218	217	217	237	264	458	2560	3530	4530	1980	1470	198
30	217	218	217	237	---	457	2560	3390	4520	1980	1460	198
31	219	---	217	237	---	457	---	3040	---	2110	1460	---
TOTAL	7007	6498	6797	6996	7115	11445	27488	104200	130590	72890	55090	24652
MEAN	226	217	219	226	245	369	916	3361	4353	2351	1777	822
MAX	232	218	221	241	264	482	2560	5090	5510	4120	2190	2570
MIN	217	214	217	217	234	266	443	2540	2530	1460	1460	198
AC-FT	13900	12890	13480	13880	14110	22700	54520	206700	259000	144600	109300	48900

CAL YR 1979 TOTAL 480135 MEAN 1315 MAX 4910 MIN 214 AC-FT 952300
WTR YR 1980 TOTAL 460768 MEAN 1259 MAX 5510 MIN 198 AC-FT 913900

13011500 PACIFIC CREEK AT MORAN, WY

LOCATION.--Lat 43°51'04", long 110°30'59", in SW¼NW¼ sec.23, T.45 N., R.114 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on left bank 40 ft (12 m) upstream from bridge on U.S. Highway 287, at Moran, and at mile 0.5 (0.8 km).

DRAINAGE AREA.--169 mi² (502 km²). Mean altitude, 8,160 ft (2,490 m).

PERIOD OF RECORD.--July to November 1906 (gage heights only), July 1917 to September 1918 (no winter records), September 1944 to September 1975, July 1978 to current year. Published as "near Moran" prior to October 1968.

GAGE.--Water-stage recorder. Altitude of gage is 6,720 ft (2,050 m), from topographic map. July 31 to Nov. 11, 1906, nonrecording gage at site 0.4 mi (0.6 km) downstream at different datum. July 20, 1917, to Sept. 30, 1918, nonrecording gage at site 0.1 mi (0.2 km) downstream at different datum. Sept. 23, 1944, to Nov. 13, 1959, at site 100 ft (30 m) upstream at same datum. Nov. 14, 1959, to Sept. 24, 1975, at site 35 ft (11 m) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. No diversion or regulation.

AVERAGE DISCHARGE.--33 years (1944-75, 1979-80), 266 ft³/s (7.533 m³/s), 22.58 in/yr (574 mm/yr), 192,700 acre-ft/yr (238 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,790 ft³/s (107 m³/s) June 15, 1974; maximum gage height, 6.35 ft (1.935 m) June 23, 1971; minimum daily discharge, 19 ft³/s (0.54 m³/s) Dec. 31, 1979.

EXTREMES FOR CURRENT YEAR.-- Peak discharge above base of 1,300 ft³/s (36.8 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 23,24		*2270	64.3	5.70	1.737	June 12	0045	1570	44.5	5.27	1.606

Minimum daily discharge, 29 ft³/s (0.82 m³/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	42	44	36	34	55	50	659	811	486	101	84
2	47	42	46	36	37	56	50	693	850	493	98	77
3	47	42	47	35	36	54	50	659	900	560	95	73
4	47	42	46	36	35	53	48	772	821	466	98	73
5	47	43	45	35	36	52	48	860	840	406	92	69
6	47	43	46	33	37	51	48	920	860	368	84	66
7	47	43	46	33	37	50	48	994	772	329	80	64
8	47	45	45	33	37	51	48	1110	801	329	77	62
9	45	43	45	33	36	50	47	1160	950	329	80	60
10	45	43	44	33	37	52	47	1050	1130	303	80	60
11	45	43	43	34	38	52	48	840	1260	267	75	75
12	45	42	40	35	39	52	47	693	1350	247	75	95
13	45	41	40	37	37	52	47	600	1260	228	73	95
14	45	40	42	40	39	48	47	560	1150	218	71	115
15	45	41	42	39	43	48	48	591	1090	218	87	101
16	45	43	42	38	46	46	50	693	870	206	112	90
17	45	43	41	37	49	45	53	710	811	182	101	87
18	45	43	41	37	54	46	60	910	880	171	90	82
19	50	42	40	36	60	47	75	1000	900	164	87	90
20	55	44	41	35	57	47	106	1190	930	160	98	92
21	55	45	41	35	55	48	146	1510	950	149	92	101
22	55	46	42	34	52	52	202	1760	870	139	84	106
23	55	45	41	35	50	50	242	2100	870	127	80	95
24	53	46	41	36	50	50	282	1970	792	118	77	94
25	53	46	41	37	48	48	308	1540	728	118	73	86
26	53	46	41	36	50	45	387	1130	702	118	75	82
27	53	45	39	33	53	48	412	940	660	112	77	77
28	53	43	36	29	56	48	419	840	560	106	77	73
29	53	41	35	30	56	47	493	831	515	104	75	71
30	50	42	36	30	---	47	560	801	500	106	69	69
31	45	---	36	31	---	50	---	753	---	106	82	---
TOTAL	1512	1295	1295	1077	1294	1540	4516	30839	26383	7433	2615	2464
MEAN	48.8	43.2	41.8	34.7	44.6	49.7	151	995	879	240	84.4	82.1
MAX	55	46	47	40	60	56	560	2100	1350	560	112	115
MIN	45	40	35	29	34	45	47	560	500	104	69	60
CFSM	.29	.26	.25	.21	.26	.29	.89	5.89	5.20	1.42	.50	.49
IN.	.33	.29	.29	.24	.28	.34	.99	6.79	5.81	1.64	.58	.54
AC-FT	3000	2570	2570	2140	2570	3050	8960	61170	52330	14740	5190	4890

CAL YR 1979 TOTAL 76972 MEAN 211 MAX 1810 MIN 20 CFSM 1.25 IN 16.94 AC-FT 152700
WTR YR 1980 TOTAL 82263 MEAN 225 MAX 2100 MIN 29 CFSM 1.33 IN 18.11 AC-FT 163200

13011900 BUFFALO FORK ABOVE LAVA CREEK, NEAR MORAN, WY

LOCATION.--Lat 43°50'14", long 110°26'21", in SE¼NE¼ sec.29, T.45 N., R.113 W., Teton County, Hydrologic Unit 17040101, Grand Teton National Park, on right bank underneath bridge on U.S. Highway 26, 287, about 2 mi (3 km) upstream from Lava Creek, 3.5 mi (5.6 km) east of Moran, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--323 mi^2 (837 km^2).

PERIOD OF RECORD.--September 1965 to current year. July to November 1906, July 1917 to September 1918, and September 1944 to September 1960 at sites about 4 mi (6 km) downstream.

REVISED RECORDS.--WRD Idaho 1974: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,772.78 ft (2,064.343 m) National Geodetic Vertical Datum of 1929 (U.S. Bureau of Public Roads bench mark).

REMARKS.--Records good except those for winter period, which are fair. No regulation or significant diversions above station.

AVERAGE DISCHARGE.--15 years (1966-80), 563 ft^3/s (15.94 m^3/s), 407,900 acre-ft/yr (503 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,020 ft^3/s (170 m^3/s) June 19, 1974, gage height, 7.91 ft (2.411 m); minimum daily, 82 ft^3/s (2.32 m^3/s) Jan. 28-31, 1969, Jan. 28, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 3100 ft^3/s (87.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
June 21	0530	*3280	92.9	5.79	1.765						

Minimum daily discharge, 82 ft^3/s (2.32 m^3/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	133	105	96	88	101	112	707	906	2250	417	289
2	172	167	105	92	96	100	115	740	922	2010	407	267
3	170	157	110	90	96	96	115	721	932	2090	387	255
4	167	159	110	92	94	98	119	824	901	1980	379	249
5	167	157	108	94	89	97	114	975	1030	1720	357	239
6	165	147	104	92	94	100	112	1050	1040	1660	344	232
7	162	134	106	88	99	95	108	1120	943	1490	338	228
8	161	136	108	93	96	98	103	1310	914	1330	333	228
9	160	130	108	95	88	100	114	1250	1120	1630	339	242
10	159	125	103	94	88	118	112	1070	1420	1520	325	235
11	159	120	97	94	88	111	105	859	1770	1370	316	276
12	157	110	92	100	86	104	110	721	2040	1190	307	307
13	156	106	95	105	86	96	107	626	2190	1120	297	338
14	155	104	94	108	84	103	116	582	2160	1030	292	324
15	157	110	100	105	88	99	131	564	2020	991	310	280
16	165	115	100	100	93	96	141	626	1610	927	322	273
17	161	120	100	100	96	98	147	653	1660	890	314	267
18	161	122	100	97	104	105	167	735	2120	824	292	249
19	172	120	94	95	116	110	206	829	2280	764	291	321
20	178	116	98	90	112	115	268	980	2680	717	321	295
21	170	104	100	88	105	119	333	1550	2890	671	296	292
22	170	108	100	88	98	120	352	2050	2710	635	275	286
23	160	112	100	90	94	115	355	2300	2740	601	269	268
24	169	112	100	90	94	110	434	2140	2510	584	263	268
25	170	112	98	94	94	100	476	1670	2370	572	255	257
26	173	112	97	92	98	105	487	1300	2560	533	285	249
27	165	110	96	89	108	110	487	1120	2530	497	276	240
28	155	104	90	82	106	112	499	1010	1890	467	280	236
29	160	95	85	83	103	110	547	953	1810	454	258	231
30	137	100	86	86	---	110	599	916	1920	473	244	225
31	117	---	90	84	---	110	---	870	---	444	263	---
TOTAL	5024	3659	3084	2886	2781	3261	7191	32821	54588	33434	9652	7946
MEAN	162	122	99.5	93.1	95.9	105	240	1059	1820	1079	311	265
MAX	178	167	110	108	116	120	599	2300	2890	2250	417	338
MIN	117	95	85	82	84	95	103	564	901	444	244	225
CFSM	.50	.38	.31	.29	.30	.33	.74	3.28	5.64	3.34	.96	.82
IN.	.58	.42	.36	.33	.32	.38	.83	3.78	6.29	3.85	1.11	.92
AC-FT	9970	7260	6120	5720	5520	6470	14260	65100	108300	66320	19140	15760

CAL YR 1979 TOTAL 166946 MEAN 457 MAX 3600 MIN 85 CFSM 1.42 IN 19.23 AC-FT 331100
WTR YR 1980 TOTAL 166327 MEAN 454 MAX 2890 MIN 82 CFSM 1.41 IN 19.16 AC-FT 329900

13018300 CACHE CREEK NEAR JACKSON, WY
(Hydrologic bench-mark station)

LOCATION.--Lat 43°27'08", long 110°42'12", in SW¼SW¼SE¼ sec.1, T.40 N., R.116 W., Teton County, Hydrologic Unit 17040103, Teton National Forest, on right bank 0.7 mi (1.1 km) upstream from Salt Lick Draw, 2.4 mi (3.9 km) southeast of Jackson, and 4.0 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--10.6 mi² (27.4 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1962 to current year.

REVISED RECORDS.--WDR WY-76-2: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,750 ft (2,057 m), from topographic map.

REMARKS.--Records good except those for winter months which are fair. No diversion above station.

AVERAGE DISCHARGE.--18 years, 13.6 ft³/s (0.385 m³/s), 9,850 acre-ft/yr (12.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 225 ft³/s (6.37 m³/s) June 24, 1971, gage height, 3.90 ft (1.189 m); maximum gage height, 3.97 ft (1.210 m) June 7, 1972; minimum daily discharge, 2.1 ft³/s (0.059 m³/s) Jan. 1, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 52 ft³/s (1.47 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
May 23	2130	*68	1.93	2.96	0.902	June 11	2215	53	1.50	2.79	0.850

Minimum daily discharge, 2.8 ft³/s (0.079 m³/s) Mar. 16, 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	4.9	5.6	4.6	4.0	3.2	3.4	16	34	31	14	10
2	6.0	5.0	5.6	4.7	4.2	3.2	3.3	16	35	30	14	9.9
3	6.0	5.0	5.6	4.7	4.3	3.1	3.3	17	38	31	14	9.7
4	6.0	5.2	5.5	4.7	3.9	3.1	3.4	17	37	29	14	9.7
5	6.0	5.2	5.4	4.7	3.8	3.1	3.4	19	38	27	13	9.4
6	5.8	5.4	5.2	4.3	3.8	3.1	3.6	21	42	26	13	9.4
7	5.8	5.4	5.4	4.6	3.8	3.0	3.6	23	40	26	13	9.4
8	5.8	5.2	5.4	4.6	3.6	3.1	3.5	26	39	25	13	9.7
9	5.8	5.4	5.4	4.6	3.6	3.1	3.6	27	41	24	13	9.4
10	5.7	5.2	5.4	4.3	3.5	3.1	3.6	26	44	23	13	9.7
11	5.7	5.3	5.5	4.6	3.5	3.1	3.6	23	41	22	12	9.9
12	5.5	5.2	5.3	4.9	3.5	3.1	3.7	21	51	22	12	9.7
13	5.5	5.1	5.2	4.7	3.5	3.0	3.7	20	49	21	12	9.9
14	5.5	5.1	5.2	4.6	3.4	2.9	3.9	20	48	21	12	9.4
15	5.7	5.2	5.4	4.4	3.4	2.9	4.2	19	44	21	12	9.2
16	5.8	5.3	5.4	4.4	3.4	2.8	4.3	20	40	20	12	8.7
17	5.7	5.5	5.4	4.3	3.3	2.8	4.6	21	39	20	12	8.5
18	5.7	5.7	5.2	4.3	3.3	3.0	5.2	22	40	19	12	8.5
19	6.8	5.5	5.2	4.2	3.3	3.1	5.7	22	40	19	12	8.5
20	6.0	5.5	5.2	4.0	3.3	3.2	7.0	28	40	18	12	8.2
21	5.7	5.4	5.4	4.1	3.2	3.2	7.8	34	40	18	11	8.7
22	5.7	5.3	5.2	4.3	3.2	3.2	9.4	41	39	18	11	8.0
23	5.5	5.3	5.2	4.4	3.2	3.2	9.9	59	39	18	11	7.8
24	5.5	5.4	5.2	4.4	3.2	3.3	10	61	37	17	11	8.0
25	5.5	5.8	5.0	4.2	3.1	3.3	10	49	35	16	11	7.8
26	5.7	5.8	4.9	4.2	3.2	3.2	12	41	34	16	12	7.8
27	5.5	5.8	4.7	4.2	3.2	3.3	12	38	34	16	11	7.6
28	5.5	5.8	4.7	4.0	3.2	3.2	13	35	32	15	11	7.4
29	5.4	5.7	4.6	3.9	3.2	3.3	13	34	31	15	10	7.2
30	5.4	5.6	4.5	3.8	---	3.3	14	34	31	15	10	7.0
31	5.0	---	4.5	3.7	---	3.4	---	34	---	15	10	---
TOTAL	177.2	161.2	161.4	135.4	101.1	96.9	191.7	884	1172	654	373	264.1
MEAN	5.72	5.37	5.21	4.37	3.49	3.13	6.39	28.5	39.1	21.1	12.0	8.80
MAX	6.8	5.8	5.6	4.9	4.3	3.4	14	61	51	31	14	10
MIN	5.0	4.9	4.5	3.7	3.1	2.8	3.3	16	31	15	10	7.0
AC-FT	351	320	320	269	201	192	380	1750	2320	1300	740	524

CAL YR 1979 TOTAL 4110.1 MEAN 11.3 MAX 66 MIN 3.0 AC-FT 8150
WTR YR 1980 TOTAL 4372.0 MEAN 11.9 MAX 61 MIN 2.8 AC-FT 8670

13018300 CACHE CREEK NEAR JACKSON, WY--Continued
(Hydrologic bench-mark station)

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT										
01...	1230	6.2	360	8.5	--	5.0	9.8	--	K16	K2
NOV										
06...	1145	5.7	250	8.7	--	.5	15.1	--	K2	K1
DEC										
06...	0830	4.2	325	8.7	--	1.0	10.2	--	7	3
JAN										
02...	1700	4.7	325	8.4	--	.0	11.0	--	15	2
FEB										
05...	1545	3.8	330	8.7	--	.5	10.8	--	8	2
MAR										
18...	1715	4.0	380	8.5	--	.0	13.6	--	K1	0
APR										
16...	1721	4.3	251	8.3	11.5	3.0	12.3	92	77	53
MAY										
20...	1010	26	285	8.6	14.5	3.5	12.0	115	K20	K1
JUN										
17...	1726	39	288	8.2	24.0	9.0	9.3	103	120	K4
JUL										
15...	0936	21	304	8.6	17.0	3.0	10.6	102	50	K19
AUG										
14...	1716	12	274	8.6	17.0	9.0	9.3	103	38	K8
SEP										
16...	1105	9.0	277	8.8	11.5	5.0	10.1	101	K5	K3
23...	1030	10	277	8.3	--	4.0	10.3	--	K5	>1
30...	1720	7.0	305	--	12.0	6.0	--	--	--	--

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)
OCT										
01...	25	130	0	35	11	1.8	4	.1	.9	170
NOV										
06...	--	170	5	43	14	2.1	4	.1	.6	160
DEC										
06...	6	160	0	41	13	2.1	3	.1	.5	160
JAN										
02...	7	170	0	43	15	2.8	5	.1	.7	170
FEB										
05...	4	180	12	48	15	2.4	3	.1	.7	170
MAR										
18...	K1	170	14	45	15	2.3	3	.1	.5	160
APR										
16...	170	170	8	44	14	2.7	3	.1	.6	160
MAY										
20...	110	160	2	45	12	2.9	4	.1	.9	160
JUN										
17...	13	160	130	45	11	2.6	3	.1	.6	30
JUL										
15...	43	150	14	42	12	1.7	2	.1	.5	140
AUG										
14...	108	160	3	42	14	1.8	2	.1	.5	160
SEP										
16...	243	160	3	42	14	2.0	3	.1	1.0	160
23...	K20	170	8	44	14	2.2	3	.1	.8	160
30...	--	--	--	--	--	--	--	--	--	--

K Results based on count outside ideal colony count range.

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT										
01...	10	.6	.2	3.8	--	166	.23	2.78	.06	.010
NOV										
06...	15	.7	.1	5.2	166	180	.23	2.55	.08	.020
DEC										
06...	3.1	.4	.1	4.5	186	162	.25	2.11	.10	.020
JAN										
02...	8.7	1.1	.1	5.0	171	179	.23	2.17	.13	.020
FEB										
05...	8.1	1.0	.1	5.0	172	183	.23	1.78	.12	.030
MAR										
18...	9.1	1.5	.1	4.9	185	175	.25	2.00	.04	.050
APR										
16...	5.8	.5	.2	4.9	186	169	.25	2.16	.03	.020
MAY										
20...	3.5	2.2	.1	4.7	166	168	.23	11.7	.03	.110
JUN										
17...	1.5	.6	.1	4.4	172	85	.23	18.2	.08	.060
JUL										
15...	3.5	1.1	.2	2.8	172	149	.23	9.75	.12	.010
AUG										
14...	2.9	.8	.1	4.4	169	163	.23	5.48	.00	.020
SEP										
16...	2.6	.8	.1	4.6	198	163	.27	4.81	.00	.030
23...	3.9	.9	.1	4.6	179	167	.24	4.83	.03	.030

DATE	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	CYANIDE TOTAL (MG/L AS CN)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)
MAR							
18...	--	--	--	--	--	--	--
JUN							
17...	1	0	0	0	5	.00	490
SEP							
23...	2	0	0	0	3	.00	110

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
MAR						
18...	--	--	.1	--	--	--
JUN						
17...	3	20	.0	0	0	20
SEP						
23...	2	10	.0	0	0	20

13018300 CACHE CREEK NEAR JACKSON, WY--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	PCB TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)
OCT 01...	1230	.00	0	.00	.0	.0	0	.00	.0	.00	.2	.00

DATE	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)
OCT 01...	.0	.00	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00

DATE	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT 01...	.0	.00	.00	.00	.00	.00	0	0	.00	.00	.00	.00

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)
OCT 01...	5	.08
NOV 06...	5	.08
DEC 06...	21	.24
JAN 02...	8	.10
FEB 05...	12	.12
MAR 18...	55	.59
APR 16...	7	.08
MAY 20...	44	3.1
JUN 17...	61	6.4
JUL 15...	13	.74
SEP 16...	13	.32
23...	34	.92

13018750 SNAKE RIVER BELOW FLAT CREEK, NEAR JACKSON, WY

LOCATION.--Lat 43°22'20", long 110°44'17", in NE¼SE¼ sec.3, T.39 N., R.116 W., Teton County, Hydrologic Unit 17040103, on left bank 20 ft (6.1 m) upstream from county road bridge, about 1 mi (1.6 km) downstream from Flat Creek, 4.8 mi (7.7 km) upstream from Hoback River, 7.0 mi (11.3 km) south of Jackson, and at mile 938.9 (1,510.7 km).

DRAINAGE AREA.--2,627 m² (6,804 km²).

PERIOD OF RECORD.--November 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,950 ft (1,814 m), from topographic map.

REMARKS.--Records good except those for winter periods, which are fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft³/s (538 m³/s) June 10, 1978, gage height, 8.64 ft (2.634 m); minimum daily, 780 ft³/s (22.1 m³/s) Dec. 31, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,500 ft³/s (439 m³/s) May 24, gage height, 7.75 ft (2.362 m); minimum daily, 960 ft³/s (27.2 m³/s) Jan. 10, 11.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 29 to Dec. 2, Dec. 13, 14, Dec. 28 to Jan. 14, Jan. 20 to Feb. 3, Feb. 9-13)

1.5	680	5.0	6750
1.7	862	6.0	9620
2.0	1170	7.0	12800
3.0	2540	8.0	16400
4.0	4400		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	1280	1060	1030	1040	1100	1270	5970	7190	10900	4270	2830
2	1290	1280	1100	1030	1080	1110	1270	6310	7280	10600	4240	2800
3	1290	1300	1190	1040	1100	1110	1260	6240	8240	10600	4150	2760
4	1290	1330	1170	1040	1120	1110	1260	6390	8900	10500	4080	2740
5	1280	1360	1170	1050	1100	1130	1290	7090	9050	9420	4010	2700
6	1290	1340	1180	1000	1100	1130	1340	7600	9430	8860	3940	2990
7	1310	1330	1180	980	1110	1090	1340	7910	9150	8250	3870	3680
8	1310	1300	1180	970	1090	1070	1320	8430	8690	7530	3830	3790
9	1290	1280	1180	970	1060	1070	1310	8750	8840	7530	3850	3760
10	1280	1280	1180	960	1050	1070	1310	8990	9530	7560	3810	3730
11	1290	1300	1160	960	1060	1080	1310	8400	10500	7160	3730	2900
12	1290	1270	1170	1000	1080	1080	1290	7470	12200	6790	3670	2370
13	1320	1250	1120	1160	1100	1080	1310	7140	12600	6520	3400	2110
14	1320	1230	1100	1200	1100	1080	1380	6800	12500	6370	3250	2030
15	1330	1210	1150	1180	1110	1100	1520	6650	12300	5680	3240	1890
16	1360	1200	1160	1140	1110	1160	1590	7010	11600	5310	3220	1760
17	1340	1220	1150	1130	1110	1150	1670	7410	10900	4910	3130	1740
18	1360	1250	1120	1120	1120	1130	1740	7830	11100	4650	3040	1690
19	1510	1220	1110	1100	1210	1150	1850	8230	11700	4560	2960	1690
20	1500	1200	1110	1110	1210	1250	2010	8460	12700	4470	2990	1730
21	1450	1180	1140	1120	1180	1250	2220	9650	13100	4310	2960	1750
22	1420	1160	1140	1130	1160	1250	2610	11200	13200	4180	2890	1750
23	1410	1170	1120	1130	1150	1250	3340	13400	13000	4180	2840	1740
24	1380	1160	1110	1130	1140	1250	3630	14900	12800	4130	2800	1720
25	1370	1170	1120	1110	1110	1280	3780	13600	12400	4270	2800	1690
26	1370	1180	1120	1100	1100	1280	4060	12300	12600	4290	2930	1640
27	1360	1160	1120	1060	1090	1260	4940	11400	11600	4230	2850	1600
28	1350	1160	1050	1040	1090	1260	5050	10700	11100	4150	2860	1570
29	1340	1100	1020	1020	1100	1260	5320	9070	10500	4070	2800	1560
30	1330	1070	1020	1020	---	1260	5580	8330	10500	4110	2740	1560
31	1290	---	1020	1030	---	1280	---	7830	---	4170	2740	---
TOTAL	41620	36940	34920	33060	32180	36130	69170	271460	325700	194260	103900	68290
MEAN	1343	1231	1126	1066	1110	1165	2306	8757	10840	6266	3352	2276
MAX	1510	1360	1190	1200	1210	1280	5580	14900	13200	10900	4270	3790
MIN	1280	1070	1020	960	1040	1070	1260	5970	7190	4070	2740	1560
AC-FT	82550	73270	69260	65570	63830	71660	137200	538400	645000	385300	206100	135500

CAL YR 1979 TOTAL 1233860 MEAN 3380 MAX 15000 MIN 880 AC-FT 2447000
WTR YR 1980 TOTAL 1247130 MEAN 3407 MAX 14900 MIN 960 AC-FT 2474000

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°11'47", long 110°53'18", Lincoln County, Hydrologic Unit 17040103, on right bank 0.3 mi (0.5 km) downstream from Wolf Creek, 6.4 mi (10.3 km) upstream from Greys River, 7.4 mi (11.9 km) east of Alpine, 16.1 mi (25.9 km) upstream from Palisades Dam, and at mile 917.5 (1,476.3 km).

DRAINAGE AREA.--3,465 mi² (8,974 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to March 1939 (published as "above Greys River, near Alpine"), July 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,683.90 ft (1,732.453 m) National Geodetic Vertical Datum of 1929. Mar. 16, 1937, to Mar. 31, 1939, at site 6.0 mi (9.7 km) downstream at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow partly regulated by Jackson Lake (see sta 13010500). Some diversions from tributaries above station.

AVERAGE DISCHARGE.--28 years (1938, 1954-80), 4,567 ft³/s (129 m³/s), 3,309,000 acre-ft/yr (4.08 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,600 ft³/s (810 m³/s) June 19, 1974, gage height, 11.96 ft (3.645 m); minimum, 740 ft³/s (21.0 m³/s) Nov. 16, 1955, gage height, 2.19 ft (0.668 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,500 ft³/s (581 m³/s) May 24, gage height, 9.69 ft (2.954 m); minimum daily discharge, 1,070 ft³/s (30.3 m³/s) Jan. 30 to Feb. 1.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Apr. 5 to Sept. 30;
stage-discharge relation affected by ice Nov. 22 to Dec. 16, Dec. 28 to Jan. 14,
Jan. 28 to Feb. 15, Mar. 16)

2.5	1040	5.0	4870
2.8	1340	7.0	10200
3.0	1540	9.0	17200
4.0	2920	10.0	21050

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1650	1530	1290	1220	1070	1300	1550	9580	9660	12900	5210	3560
2	1630	1500	1290	1240	1100	1300	1510	9870	9660	12900	5170	3520
3	1630	1520	1290	1260	1280	1300	1510	9760	10700	12600	5070	3470
4	1630	1570	1300	1260	1300	1320	1520	10100	11200	12600	5000	3440
5	1630	1600	1340	1240	1260	1330	1600	10900	11600	11300	4900	3390
6	1640	1580	1340	1200	1250	1300	1660	11200	12100	10600	4810	3570
7	1670	1550	1350	1150	1240	1260	1630	11700	11900	9920	4720	4300
8	1660	1510	1360	1120	1200	1270	1570	12300	11200	9290	4680	4530
9	1640	1490	1350	1120	1200	1260	1580	12600	11200	9030	4710	4520
10	1630	1480	1350	1120	1180	1260	1630	12300	12300	9150	4620	4530
11	1610	1520	1300	1100	1170	1290	1580	11500	13600	8720	4550	3910
12	1600	1450	1240	1300	1170	1320	1590	10100	15400	8280	4500	3180
13	1640	1430	1240	1550	1200	1290	1630	9440	16100	7920	4220	2860
14	1640	1400	1220	1500	1230	1290	1720	8940	15800	7710	4040	2710
15	1640	1380	1300	1480	1240	1320	1850	8700	15200	7330	4050	2520
16	1680	1380	1300	1380	1250	1300	1980	9100	14200	6830	4050	2340
17	1660	1400	1310	1350	1250	1330	2070	9950	13200	6420	3910	2270
18	1680	1450	1280	1330	1290	1340	2210	10600	13400	6030	3810	2220
19	1890	1450	1310	1280	1390	1380	2440	11100	14400	5860	3720	2280
20	1900	1390	1320	1300	1390	1470	2830	11500	15500	5720	3780	2300
21	1810	1370	1290	1310	1340	1510	3310	13000	16100	5500	3700	2360
22	1750	1360	1300	1310	1330	1500	4000	14900	16100	5330	3610	2320
23	1730	1350	1290	1320	1300	1510	5210	18000	16000	5350	3570	2280
24	1720	1350	1260	1330	1270	1500	6070	20100	15700	5280	3520	2310
25	1680	1360	1290	1330	1220	1540	6160	17600	15000	5370	3510	2230
26	1680	1360	1270	1310	1230	1510	6720	15200	15200	5350	3710	2170
27	1670	1350	1250	1240	1260	1500	7690	14300	14200	5220	3630	2110
28	1660	1300	1200	1100	1270	1500	8120	13000	13300	5150	3650	2090
29	1650	1290	1180	1080	1300	1500	8490	11300	12300	5080	3550	2070
30	1600	1280	1180	1070	---	1540	9030	10700	12200	5120	3490	2080
31	1560	---	1180	1070	---	1550	---	10200	---	5180	3490	---
TOTAL	51860	42950	39770	38970	36180	42890	100460	369540	404420	239040	128950	87440
MEAN	1673	1432	1283	1257	1248	1384	3349	11920	13480	7711	4160	2915
MAX	1900	1600	1360	1550	1390	1550	9030	20100	16100	12900	5210	4530
MIN	1560	1280	1180	1070	1070	1260	1510	8700	9660	5080	3490	2070
AC-FT	102900	85190	78880	77300	71760	85070	199300	733000	802200	474100	255800	173400

CAL YR 1979 TOTAL 1450280 MEAN 3973 MAX 18800 MIN 960 AC-FT 2877000
WTR YR 1980 TOTAL 1582470 MEAN 4324 MAX 20100 MIN 1070 AC-FT 3139000

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER-QUALITY RECORDS

LOCATION.--Samples collected at bridge at Astoria Springs, 3.0 mi (4.8 km) downstream from Hoback River, 13 mi (21 km) upstream from discharge station, and 15 mi (24 km) northeast of Alpine.

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (JTU)	OXYGEN, DIS-SOLVED (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)
OCT										
09...	1140	1640	459	--	12.5	10.0	--	--	--	--
24...	1530	1650	365	8.5	--	9.0	2	11.4	K1	180
NOV										
19...	1315	1480	330	--	5.0	3.0	--	--	--	--
28...	1530	--	375	8.2	--	.5	2	11.8	21	190
DEC										
18...	1610	--	375	8.2	--	1.5	2	11.6	K8	170
JAN										
07...	1505	1090	177	--	-7.0	.0	--	--	--	--
22...	1630	--	360	8.1	--	.5	2	12.0	K8	180
FEB										
19...	1418	1430	402	--	.0	4.0	--	--	--	--
27...	1630	--	425	8.3	--	5.5	1	12.0	K2	170
MAR										
18...	1415	--	380	8.4	--	3.0	1	12.8	K1	170
APR										
16...	1027	1960	177	8.5	10.0	7.0	2	10.4	130	170
MAY										
19...	1547	10200	128	8.6	--	9.5	4	11.7	15	120
JUN										
19...	1458	14400	245	8.3	31.0	11.0	25	9.4	46	110
JUL										
14...	1350	7100	287	8.4	--	7.5	3	10.2	14	120
AUG										
16...	1229	4090	235	8.5	19.0	13.0	1	8.9	21	160
SEP										
15...	1324	2450	329	8.8	21.0	12.5	8	8.3	3	170

DATE	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
OCT									
09...	--	--	--	--	--	--	--	--	--
24...	57	53	12	8.7	9	.3	2.3	150	0
NOV									
19...	--	--	--	--	--	--	--	--	--
28...	59	56	12	10	10	.3	2.3	160	0
DEC									
18...	47	50	11	11	12	.4	2.4	150	0
JAN									
07...	--	--	--	--	--	--	--	--	--
22...	47	50	13	11	12	.4	2.3	160	0
FEB									
19...	--	--	--	--	--	--	--	--	--
27...	47	50	11	9.2	10	.3	2.8	150	0
MAR									
18...	39	51	11	9.8	11	.3	1.3	160	0
APR									
16...	47	48	11	12	13	.4	3.1	150	0
MAY									
19...	22	36	6.8	7.0	11	.3	1.5	120	0
JUN									
19...	20	34	6.2	4.0	7	.2	1.8	110	0
JUL									
14...	30	36	7.5	4.0	7	.2	1.1	110	0
AUG									
16...	43	46	8.4	7.7	10	.3	1.4	130	6
SEP									
15...	62	54	9.7	6.5	7	.2	.9	120	6

13022500 SNAKE RIVER ABOVE RESERVOIR, NEAR ALPINE, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT									
09...	--	--	--	--	--	--	--	--	--
24...	120	58	5.2	.4	11	226	.31	1010	.020
NOV									
19...	--	--	--	--	--	--	--	--	--
28...	130	64	6.0	.5	12	243	.33	--	.000
DEC									
18...	120	59	5.0	.5	12	227	.31	--	.040
JAN									
07...	--	--	--	--	--	--	--	--	--
22...	130	56	6.8	.5	12	231	.31	--	.020
FEB									
19...	--	--	--	--	--	--	--	--	--
27...	120	57	5.3	.5	12	223	.30	--	.030
MAR									
18...	130	48	9.3	.5	9.9	219	.30	--	.010
APR									
16...	120	56	3.9	.5	9.7	218	.30	1170	.020
MAY									
19...	98	33	2.0	.5	9.7	160	.22	4410	.030
JUN									
19...	90	21	2.0	.6	10	130	.18	5050	.030
JUL									
14...	90	30	2.0	.4	9.2	150	.20	2880	.010
AUG									
16...	120	30	4.3	.4	9.8	173	.24	1910	.030
SEP									
15...	110	67	3.2	.4	5.8	210	.29	1390	.040

13023000 GREYS RIVER ABOVE RESERVOIR, NEAR ALPINE, WY

LOCATION.--Lat 43°08'35", long 110°58'34", in SW¼SE¼ sec.34, T.37 N., R.118 W. (unsurveyed), Lincoln County, Hydrologic Unit 17040103, on right bank at Bridge Campground, 3.6 mi (5.8 km) southeast of Alpine, 3.0 mi (4.8 km) upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--448 mi² (1,160 km²). Mean altitude, 8,080 ft (2,460 m).

PERIOD OF RECORD.--July to September 1917, June to September 1918, March 1937 to March 1939, October 1953 to current year. Published as Greys River near Alpine, Idaho, 1917-18 and as Greys River near Alpine, Wyo., 1937-39.

REVISED RECORDS.--WRD Idaho 1967: 1966.

GAGE.--Water-stage recorder. Altitude of gage is 5,720 ft (1,740 m), from topographic map. July 6 to Sept. 30, 1917, and June 4 to Sept. 30, 1918, nonrecording gage and Mar. 17, 1937, to Mar. 31, 1939, water-stage recorder, at site 1.8 mi (2.9 km) downstream, and October 1953 to Sept. 22, 1965, water-stage recorder at site 1 mi (1.6 km) downstream at different datums.

REMARKS.--Records fair. Less than 500 acres (202 hm²) irrigated by diversions from Greys River and tributaries above station.

AVERAGE DISCHARGE.--28 years (1938, 1954-80), 654 ft³/s (18.52 m³/s), 19.82 in/yr (503 mm/yr), 473,800 acre-ft/yr (584 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 7,230 ft³/s (205 m³/s) June 19, 1971, gage height, 6.33 ft (1.929 m); maximum gage height observed, 19.1 ft (5.82 m) former site and datum about Dec. 18, 1965 (ice jam); minimum daily discharge, 92 ft³/s (2.61 m³/s) Jan. 2, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s (56.6 m³/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft³/s)	(m³/s)	(ft)	(m)	Date	Time	(ft³/s)	(m³/s)	(ft)	(m)
Apr. 30	2100	2260	64.0	4.18	1.274	May 24	0900	*2960	83.8	4.76	1.451

Minimum daily discharge, 125 ft³/s (3.54 m³/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	276	228	180	150	183	215	2020	1810	1570	676	480
2	281	257	260	175	175	178	215	1960	1890	1530	653	475
3	274	290	303	170	180	193	220	1750	2050	1480	647	460
4	279	300	283	170	170	195	225	1910	1950	1410	635	455
5	281	301	275	180	160	194	235	1980	2070	1340	624	440
6	281	283	271	180	180	188	240	1980	2230	1300	596	440
7	278	281	279	185	195	169	235	2080	1910	1230	585	445
8	274	266	242	190	185	187	230	2100	1950	1180	585	440
9	274	275	235	195	165	191	230	1960	1910	1150	579	435
10	273	263	231	180	150	187	240	1750	2070	1130	563	435
11	272	288	204	160	170	182	245	1530	2260	1140	557	445
12	271	252	185	190	175	188	245	1380	2280	1110	541	475
13	271	255	224	230	170	190	250	1260	2300	984	530	460
14	272	271	221	250	170	195	265	1200	2240	1020	520	460
15	277	278	245	240	180	190	373	1220	2170	960	568	431
16	305	289	260	220	180	185	445	1250	1960	916	587	424
17	284	334	245	195	190	170	509	1250	1950	901	541	426
18	282	307	249	185	195	185	635	1300	1980	901	510	428
19	403	240	256	180	195	200	820	1550	2040	887	500	425
20	423	222	275	175	190	215	1110	1920	2120	852	515	430
21	340	200	271	175	189	215	1380	2210	2160	826	495	430
22	319	185	267	170	188	210	1560	2370	2150	802	480	430
23	309	214	260	175	185	205	1730	2610	2160	790	460	435
24	305	260	252	180	178	200	1800	2750	2080	772	455	440
25	302	264	264	175	163	200	1750	2550	1930	778	465	440
26	311	260	256	165	173	205	1900	2230	1860	754	541	430
27	303	249	235	145	179	205	1860	1970	1830	742	505	411
28	299	198	210	125	183	215	1910	1840	1710	724	505	401
29	299	188	180	140	190	225	1840	1860	1630	718	485	396
30	292	208	170	140	---	225	1980	1760	1560	718	480	391
31	274	---	175	135	---	220	---	1780	---	700	490	---
TOTAL	9192	7754	7511	5555	5153	6090	24892	57280	60210	31315	16873	13113
MEAN	297	258	242	179	178	196	830	1848	2007	1010	544	437
MAX	423	334	303	250	195	225	1980	2750	2300	1570	676	480
MIN	271	185	170	125	150	169	215	1200	1560	700	455	391
CFSM	.66	.58	.54	.40	.40	.44	1.85	4.13	4.48	2.25	1.21	.98
IN.	.76	.64	.62	.46	.43	.51	2.07	4.76	5.00	2.60	1.40	1.09
AC-FT	18230	15380	14900	11020	10220	12080	49370	113600	119400	62110	33470	26010

CAL YR 1979 TOTAL 196733 MEAN 539 MAX 2550 MIN 150 CFSM 1.20 IN 16.34 AC-FT 390200
WTR YR 1980 TOTAL 244938 MEAN 669 MAX 2750 MIN 125 CFSM 1.49 IN 20.34 AC-FT 485800

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY

LOCATION.--Lat 43°04'47", long 111°02'12", in SW¼NE¼ sec.28, T.36 N., R.119 W., Lincoln County, Hydrologic Unit 17040105, on right bank 3.4 mi (5.5 km) northwest of Etna and 8.0 mi (12.9 km) upstream from maximum flowline of Palisades Reservoir.

DRAINAGE AREA.--829 mi² (2,147 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,675.78 ft (1,729.977 m) National Geodetic Vertical Datum of 1929 (levels by USBR).

REMARKS.--Records good. Diversions above station for power developments, industry, municipal supply, and irrigation of about 60,500 acres (245 km²) of which about 1,000 acres (405 hm²) are below station (1966 determination). For details on adjudication of diversions, see Remarks for this station in WSP 1347.

AVERAGE DISCHARGE.--27 years, 773 ft³/s (21.89 m³/s), 560,000 acre-ft/yr (690 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,870 ft³/s (110 m³/s) June 1, 1971, gage height, 5.30 ft (1.615 m); minimum, 160 ft³/s (4.53 m³/s) Jan. 7, 8, 1971, gage height, 1.53 ft (0.466 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,550 ft³/s (72.2 m³/s) June 6, 7, gage height, 4.39 ft (1.338 m); minimum, 235 ft³/s (6.66 m³/s) Jan. 28, gage height, 1.66 ft (0.506 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)

1.6	190	3.5	1680
2.0	435	4.0	2160
2.5	796	4.5	2650
3.0	1230		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	486	507	441	387	353	424	400	2010	2010	1160	623	686
2	488	505	422	393	375	425	394	1960	2000	1210	616	693
3	484	507	452	380	394	436	391	1680	2360	1220	595	678
4	486	514	449	391	402	434	395	1880	2530	1230	582	670
5	487	514	442	393	388	432	413	1950	2520	1200	574	663
6	484	507	442	373	383	433	434	1980	2540	1130	558	655
7	482	503	442	370	397	416	430	2050	2490	1090	534	655
8	480	497	442	396	378	416	422	2160	2370	1120	538	670
9	475	494	442	392	360	414	425	2250	2280	1080	538	678
10	477	493	442	402	367	413	432	2290	2250	1080	535	678
11	489	494	421	354	380	412	429	2250	2240	1000	533	708
12	487	488	386	434	376	415	432	2160	2240	979	534	740
13	487	483	405	490	369	413	457	2080	2230	945	526	748
14	486	480	393	508	354	415	484	1950	2220	920	514	732
15	485	479	385	497	376	420	530	1850	2220	914	541	708
16	490	475	403	471	365	422	591	1870	2190	866	598	701
17	482	479	393	459	366	417	652	2000	2000	842	612	693
18	485	484	373	444	392	417	731	1890	1810	827	598	693
19	528	479	366	432	449	418	862	1820	1740	819	584	693
20	567	473	386	402	458	416	1080	1800	1660	792	598	678
21	545	458	380	411	460	420	1350	1840	1670	772	605	686
22	524	441	383	411	450	416	1510	1900	1620	730	605	686
23	516	440	383	409	444	416	1650	2030	1530	706	598	686
24	510	461	382	429	431	416	1790	2290	1450	689	591	686
25	510	457	390	434	428	418	1620	2360	1390	732	591	670
26	507	458	389	416	429	412	1740	2290	1320	719	655	670
27	508	453	377	379	427	413	1740	2150	1270	709	663	663
28	508	435	373	328	428	412	1770	2030	1200	656	686	655
29	507	411	379	361	433	399	1840	2050	1160	630	678	655
30	507	440	371	360	---	401	1950	2030	1140	632	670	648
31	502	---	372	335	---	400	---	1960	---	627	686	---
TOTAL	15459	14309	12506	12641	11612	12931	27344	63010	57650	28026	18359	20525
MEAN	499	477	403	408	400	417	911	2033	1922	904	592	684
MAX	567	514	452	508	460	436	1950	2360	2540	1230	686	748
MIN	475	411	366	328	353	399	391	1800	1140	627	514	648
AC-FT	30660	28380	24810	25070	23030	25650	54240	125000	114300	55590	36420	40710

CAL YR 1979 TOTAL 225806 MEAN 619 MAX 1800 MIN 279 AC-FT 447900
WTR YR 1980 TOTAL 294372 MEAN 804 MAX 2540 MIN 328 AC-FT 583900

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: May 1977 to September 1979 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	TURBIDITY (JTU)	OXYGEN, DISSOLVED (MG/L)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARDNESS (MG/L AS CACO3)
OCT										
08...	1555	478	599	--	24.0	11.5	--	--	--	--
24...	1640	--	480	8.5	--	10.0	2	11.4	K6	240
NOV										
23...	1025	430	362	--	-.5	5.0	--	--	--	--
28...	1650	--	470	8.2	--	1.5	4	11.2	33	230
DEC										
18...	1710	--	490	8.0	--	1.5	4	11.1	48	230
JAN										
11...	1152	295	484	--	-9.0	2.0	--	--	--	--
22...	1740	--	460	8.0	--	1.5	4	10.6	26	230
FEB										
18...	1110	387	540	--	5.5	5.0	--	--	--	--
27...	1745	--	580	8.1	--	7.0	4	10.2	K10	220
MAR										
18...	1315	--	580	8.2	--	7.0	6	11.6	K1	230
APR										
15...	1852	533	382	8.4	10.0	12.0	20	9.6	85	240
MAY										
19...	1213	1750	347	8.2	28.0	10.0	19	10.0	110	210
JUN										
19...	1903	1720	432	8.2	22.0	15.0	20	8.3	100	200
JUL										
14...	1131	880	--	8.1	27.0	7.0	5	10.1	230	230
AUG										
16...	1712	615	338	8.1	17.0	13.0	1	8.8	340	240
SEP										
15...	1100	708	474	7.9	19.0	9.0	10	9.8	44	--
15...	1324	2450	--	--	--	12.5	--	--	--	250

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)
OCT									
08...	--	--	--	--	--	--	--	--	--
24...	43	65	18	15	12	.4	1.3	240	0
NOV									
23...	--	--	--	--	--	--	--	--	--
28...	33	64	18	15	12	.4	1.3	240	0
DEC									
18...	33	63	17	15	12	.4	1.5	240	0
JAN									
11...	--	--	--	--	--	--	--	--	--
22...	35	60	20	18	14	.5	1.5	240	0
FEB									
18...	--	--	--	--	--	--	--	--	--
27...	31	62	16	23	18	.7	2.0	230	0
MAR									
18...	25	64	17	15	12	.4	.3	250	0
APR									
15...	35	65	18	30	21	.8	3.0	250	--
MAY									
19...	21	60	14	11	10	.3	1.6	230	0
JUN									
19...	15	60	12	12	11	.4	1.8	220	3
JUL									
14...	33	66	15	8.0	7	.2	.7	240	0
AUG									
16...	51	62	21	13	10	.4	1.2	230	0
SEP									
15...	--	--	--	--	--	--	--	--	--
15...	37	66	22	19	14	.5	.4	260	0

13027500 SALT RIVER ABOVE RESERVOIR, NEAR ETNA, WY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ALKA- LINITY (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT									
03...	--	--	--	--	--	--	--	--	--
24...	200	35	17	.2	5.6	278	.38	--	.030
NOV									
23...	--	--	--	--	--	--	--	--	--
28...	200	29	21	.2	5.6	277	.38	--	.030
DEC									
18...	200	36	16	.2	7.3	277	.38	--	.190
JAN									
11...	--	--	--	--	--	--	--	--	--
22...	200	39	21	.2	7.1	285	.39	--	.090
FEB									
18...	--	--	--	--	--	--	--	--	--
27...	190	35	27	.2	6.0	292	.40	--	.080
MAR									
18...	200	27	26	.1	5.7	276	.38	--	.060
APR									
15...	200	31	33	.1	6.3	313	.43	450	.170
MAY									
19...	190	25	13	.2	7.2	250	.34	1180	.030
JUN									
19...	180	23	11	.2	7.8	240	.33	1120	.010
JUL									
14...	200	23	13	.2	5.6	250	.34	594	.020
AUG									
16...	190	37	15	.1	6.8	259	.35	430	.040
SEP									
15...	--	--	--	--	--	--	--	--	--
15...	210	51	11	.1	5.2	310	.42	2050	.070

13032500 SNAKE RIVER NEAR IRWIN, ID

LOCATION.--Lat 43°21'03", long 111°13'06", in NE¼NE¼ sec.7, T.1 S., R.45 E., Bonneville County, Hydrologic Unit 17040104, on right bank at Water and Power Resources Service headquarters, 1.5 mi (2.4 km) downstream from Palisades Dam 2 mi (3.2 km) upstream from Palisades Creek, 5 mi (8 km) southeast of Irwin, and at mile 900.2 (1,448.4 km).

DRAINAGE AREA.--5,225 mi² (13,533 km²).

PERIOD OF RECORD.--March to October 1935, April to October 1936, May 1949 to current year. Records for station "at Calamity Point, near Irwin" April to August 1934, April to October 1935, April to October 1936, March 1939 to September 1941 are equivalent to those for this station.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,353.00 ft (1,631.594 m), National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). Mar. 30, 1935, to Oct. 31, 1936, water-stage recorder at site 3.5 mi (5.6 km) downstream at different datum. May 1, 1949, to Mar. 22, 1950, nonrecording gage at site 1,100 ft (335 m) downstream at datum 1.9 ft (0.58 m) higher.

REMARKS.--Records good. Flow regulated by Jackson Lake (see sta 13010500) and Palisades Reservoir (see sta 13032450). Diversions from tributaries above station for irrigation in Wyoming and Idaho of about 95,300 acres (38,570 hm²) 1966 determination.

AVERAGE DISCHARGE.--30 years (1950-80), 6,074 ft³/s (172.0 m³/s), 4,769,000 acre-ft/yr (5,880 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,800 ft³/s (901 m³/s) June 4-6, 1956; maximum gage height, 13.31 ft (4.057 m) June 4, 1956; minimum discharge, 19 ft³/s (0.54 m³/s) Nov. 8, 1956, gage height, 2.43 ft (0.741 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in early June 1894 probably was higher than that of June 4-6, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,400 ft³/s (549 m³/s) June 7, 16; maximum gage height, 10.75 ft (3.277 m) June 7; minimum 833 ft³/s (23.6 m³/s) Dec. 26, gage height, 4.26 ft (1.298 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5430	1040	1080	1200	1220	1250	6670	10100	17200	16100	12100	6330
2	4970	1040	1080	1190	1230	1240	6640	10100	17300	15900	11800	6630
3	4950	1040	1080	1190	1230	1250	6640	10100	17300	15300	11400	6640
4	4760	1050	1070	1190	1230	1260	6640	10900	16700	15400	10400	6710
5	4530	1050	1080	1190	1220	1250	6670	11500	16300	15400	10000	6880
6	4470	1050	1080	1190	1230	1250	6670	12200	13900	15000	9380	6880
7	4170	1040	1080	1180	1240	1240	6640	12200	18200	14000	9100	6880
8	3940	1050	1080	1190	1240	1240	3540	12200	18300	12800	9100	6870
9	3940	1040	1070	1180	1220	1240	2290	13100	18300	12200	9100	7030
10	3630	1060	1080	1210	1220	1240	2290	13600	18300	12500	8870	7070
11	3320	1060	1070	1170	1220	1240	2310	14100	18300	13000	8540	6930
12	3340	1070	1070	1210	1220	1250	2290	14600	18300	13300	8210	6480
13	3360	1070	1070	1210	1230	1260	2290	15100	18300	13300	7940	6060
14	3160	1060	1060	1200	1230	1250	2300	15200	18500	13300	7820	5390
15	2930	1070	1070	1220	1230	1250	2290	15100	19200	13500	7910	5120
16	2720	1050	1070	1210	1240	1250	2290	13800	19300	13900	7730	4600
17	2520	1060	1070	1220	1240	1250	2300	13800	18500	14200	7280	4220
18	2220	1060	1090	1210	1240	1250	2290	13800	15600	14600	7100	4140
19	2140	1060	1090	1200	1240	1250	2310	13800	14700	14300	6650	4060
20	2020	1070	1080	1200	1250	1250	2300	14100	16800	14000	5830	3720
21	1910	1070	1080	1200	1250	1250	3650	14200	18700	13600	5530	3660
22	1810	1080	1090	1200	1240	1250	5020	14600	19000	13300	4680	3660
23	1790	1070	1090	1210	1250	1240	7700	14800	19000	13300	4530	3650
24	1700	1080	1080	1200	1250	1250	8130	14800	19000	13300	4510	3330
25	1690	1080	1090	1210	1250	1250	8110	15600	17900	13300	4510	3120
26	1550	1080	1090	1200	1250	1240	8710	15800	17200	13100	4550	3110
27	1440	1090	1090	1200	1240	3040	10100	16900	17500	12700	5060	3110
28	1350	1080	1120	1200	1250	6100	10100	17200	17500	12500	5600	3120
29	1250	1070	1140	1210	1250	6640	10100	17200	17500	12300	6010	3230
30	1150	1070	1140	1220	---	6640	10100	17200	17200	12300	6050	3710
31	1050	---	1160	1230	---	6640	---	17300	---	12300	6050	---
TOTAL	89210	31860	33690	37240	35850	61500	159380	435000	529800	424000	233340	152340
MEAN	2878	1062	1087	1201	1236	1984	5313	14030	17660	13680	7527	5078
MAX	5430	1090	1160	1230	1250	6640	10100	17300	19300	16100	12100	7070
MIN	1050	1040	1060	1170	1220	1240	2290	10100	13900	12200	4510	3110
AC-FT	176900	63190	66820	73870	71110	122000	316100	862800	1051000	841000	462800	302200

CAL YR 1979 TOTAL 2280980 MEAN 6249 MAX 14900 MIN 1040 AC-FT 4524000
WTR YR 1980 TOTAL 2223210 MEAN 6074 MAX 19300 MIN 1040 AC-FT 4410000

13037500 SNAKE RIVER NEAR HEISE, ID

LOCATION.--Lat 43°36'45", long 111°39'33", in SE¼SW¼ sec.5, T.3 N., R.41 E., Bonneville County, Hydrologic Unit 17040104, on left bank 850 ft (259 m) upstream from Anderson canal headgate, 2.4 mi (3.9 km) upstream from Heise, 6 mi (9.7 km) east of Ririe, 24 mi (38.6 km) upstream from Henrys Fork, and at mile 853.6 (1,373.4 km).
DRAINAGE AREA.--5,752 mi² (14,898 km²). Mean altitude, 7,770 ft (2,368 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Prior to 1911, published as South Fork of Snake River near Heise.
REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1912.
GAGE.--Water-stage recorder. Datum of gage is 5,015.3 ft (1,528.66 m) National Geodetic Vertical Datum of 1929. Prior to July 9, 1913, nonrecording gage and July 9, 1913, to Sept. 29, 1922, water-stage recorder, at datum 2.65 ft higher (0.808 m).
REMARKS.--Records good. Flow partly regulated by Jackson Lake (13010500) and Palisades Reservoir (13032450). Some diurnal fluctuations during winter from powerplant operations at Palisades. Riley ditch, 1.5 mi (2.4 km) upstream, diverted 5,210 acre-ft (6.42 hm³) during the year. Diversions from tributaries above station for irrigation in Wyoming and Idaho of about 104,000 acres (42,100 hm²), 1966 determination.
AVERAGE DISCHARGE.--70 years, 6,934 ft³/s (196.4 m³/s), 5,024,000 acre-ft/yr (6,194 hm³/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 60,000 ft³/s (1,700 m³/s) May 19, 1927, result of washing out of landslide on Gros Ventre River, gage height, about 16.0 ft (4.88 m), present datum; minimum, 460 ft³/s (13.0 m³/s) Nov. 10, 12, 1956, gage height, -0.18 ft (-0.055 m).
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in early June 1894 was estimated as 65,000 ft³/s (1,840 m³/s) by Corps of Engineers.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,200 ft³/s (572 m³/s) June 17, gage height, 6.99 ft (2.131 m); minimum, 1,070 ft³/s (30.3 m³/s) Feb. 9, gage height, 0.91 ft (0.277 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 11 to Aug. 22; stage-discharge relation affected by ice
Dec. 28-30, Jan. 20, 27-31, Feb. 1, 10, 11)

0.9	1160	4.0	8010
1.5	2000	5.0	11500
2.0	2810	6.5	17500
3.0	4980	7.5	22000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5530	1460	1360	1390	1360	1400	6910	11400	18200	17100	12600	6720
2	5250	1440	1360	1400	1360	1380	6900	11300	18300	16700	12200	7010
3	5050	1420	1390	1390	1360	1400	6900	11300	18200	16400	12000	7170
4	4930	1470	1360	1390	1360	1470	6930	12000	17500	16200	11000	7160
5	4750	1450	1360	1390	1330	1440	6990	12600	16300	16100	10600	7370
6	4570	1420	1360	1380	1350	1400	6990	13300	17000	15900	10000	7390
7	4400	1420	1360	1370	1350	1370	6930	13400	19300	15200	9630	7410
8	4160	1420	1370	1380	1330	1380	5280	13400	19300	13800	9630	7400
9	4090	1410	1350	1380	1330	1370	2670	14300	19300	12800	9600	7510
10	3940	1410	1350	1440	1330	1410	2620	14700	19300	13000	9500	7610
11	3610	1420	1340	1510	1330	1440	2590	15100	19400	13300	9190	7540
12	3530	1410	1320	1420	1320	1410	2590	15500	19300	13700	8750	7080
13	3520	1400	1330	1580	1330	1380	2590	15900	19200	13700	8580	6730
14	3430	1400	1330	1800	1330	1400	2590	16000	19700	13700	8410	5980
15	3250	1400	1320	1620	1350	1400	2640	15700	20100	13800	8580	5610
16	3080	1410	1320	1490	1350	1380	2640	14700	20100	14100	8480	5060
17	2890	1380	1320	1450	1360	1380	2670	14600	19800	14500	8040	4680
18	2660	1400	1310	1420	1610	1380	2710	14600	17500	14800	7660	4840
19	2580	1380	1300	1400	1950	1380	2780	14600	15500	14700	7430	4500
20	2460	1370	1320	1400	1840	1400	2900	15100	17100	14400	6800	4190
21	2340	1360	1300	1400	1750	1410	3860	15100	19100	14000	6150	4080
22	2240	1360	1320	1390	1710	1400	5390	15600	19500	13600	5470	4060
23	2190	1350	1320	1390	1680	1400	8240	15700	19500	13600	4930	4050
24	2140	1370	1300	1390	1680	1380	9530	15900	19300	13600	4930	3850
25	2080	1370	1310	1400	1500	1400	9460	16700	19000	13600	4900	3580
26	2010	1370	1300	1390	1360	1380	9810	16800	17900	13500	4930	3560
27	1880	1380	1290	1390	1420	1840	11400	17700	18200	13100	5350	3550
28	1830	1370	1290	1380	1450	5330	11400	17900	18200	13000	5800	3550
29	1720	1350	1300	1380	1470	6850	11400	18000	18200	12600	6400	3610
30	1620	1350	1320	1370	---	6910	11400	18100	18000	12600	6550	4010
31	1520	---	1330	1370	---	6900	---	18200	---	12700	6580	---
TOTAL	99250	41920	41210	44250	42250	64170	177710	465200	557300	439800	250670	166560
MEAN	3202	1397	1329	1427	1457	2070	5924	15010	18580	14190	8086	5552
MAX	5530	1470	1390	1800	1950	6910	11400	18200	20100	17100	12600	7610
MIN	1520	1350	1290	1370	1320	1370	2590	11300	15500	12600	4900	3550
AC-FT	196900	83150	81740	87770	83800	127300	352500	922700	1105000	872300	497200	330400
(†)	3170	2877	2565	2924	2778	2542	6210	19450	19430	10140	5142	4511
(†)	194900	171200	157700	179800	159800	156300	369500	1194700	1157000	623300	316200	269400

CAL YR 1979 TOTAL 2452260 MEAN 6719 MAX 16800 MIN 1290 AC-FT 4864000 MEAN† 6151 ACRE-FT† 4453000
WTR YR 1980 TOTAL 2390290 MEAN 6531 MAX 20100 MIN 1290 AC-FT 4741000 MEAN† 6817 ACRE-FT† 4949000

† Adjusted for storage in Jackson Lake and Palisades Reservoir; no account taken for time of travel between reservoirs and Heise gaging station.

13037500 SNAKE RIVER NEAR HEISE, ID--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: January 1953 to September 1976, March 1978 to July 1979 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT 29...	1235	1720	455	8.1	3.0	8.0	1.1	9.2	95	K2
NOV 26...	1409	1290	492	7.7	-.5	4.0	.60	12.4	116	K4
DEC 21...	1130	1230	471	8.5	3.0	3.0	.70	9.5	94	<1
JAN 28...	1209	1970	560	8.2	-18.0	.0	.60	10.6	89	19
FEB 25...	1338	1210	448	7.8	5.0	4.0	1.5	--	--	17
APR 25...	1131	9500	382	7.5	10.0	4.0	4.0	10.7	98	120
MAY 27...	1240	18300	323	7.5	13.5	7.5	5.1	10.2	103	K36
JUN 24...	1406	19700	308	8.0	25.5	9.5	6.0	9.7	102	130
JUL 28...	1220	12700	285	8.0	28.6	10.0	1.6	9.6	102	27
AUG 28...	1000	6090	245	8.1	23.0	13.0	.80	8.9	101	25
SEP 29...	1433	3610	389	8.7	26.0	13.0	1.3	9.0	102	20

DATE	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)
OCT 29...	--	220	61	62	16	19	16	.6	2.9	160
NOV 26...	K32	210	43	59	16	18	15	.5	2.8	170
DEC 21...	92	230	65	66	17	20	21	.6	2.9	170
JAN 28...	110	230	55	66	17	25	19	.7	3.0	180
FEB 25...	150	240	71	67	18	20	15	.6	2.9	170
APR 25...	150	180	51	51	13	11	12	.4	1.9	130
MAY 27...	92	160	38	45	11	8.8	11	.3	1.6	120
JUN 24...	66	140	22	41	9.5	8.2	11	.3	1.4	120
JUL 28...	90	130	8	37	8.6	7.7	11	.3	1.4	120
AUG 28...	110	150	23	43	11	9.3	12	.3	1.6	130
SEP 29...	25	170	44	50	12	12	13	.4	2.1	130

K Results based on counts outside ideal colony count range.

13037500 SNAKE RIVER NEAR HEISE, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT 29...	63	21	.3	8.6	220	289	.30	1020	.09	.010	.50
NOV 26...	70	24	.4	7.1	315	300	.43	1100	.08	.030	.81
DEC 21...	72	25	.4	7.4	323	314	.44	1070	.12	.000	.34
JAN 28...	75	26	.4	8.5	344	330	.47	1030	.18	.000	.16
FEB 25...	71	28	.4	7.6	314	318	.43	1030	.16	.030	.12
APR 25...	56	11	.4	8.1	252	231	.34	6460	.13	.000	.53
MAY 27...	43	8.6	.3	6.0	223	197	.30	11000	--	--	--
JUN 24...	32	4.6	.2	8.8	195	179	.27	10400	.31	.000	.47
JUL 28...	26	6.5	.4	8.9	175	169	.24	6000	.09	.000	.51
AUG 28...	36	9.9	.3	8.7	196	198	.27	3220	.05	.000	2.6
SEP 29...	46	15	.4	8.3	229	224	.31	2230	.01	.000	.51

DATE	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED (MG/L AS C)
OCT 29...	.51	.00	.54	.60	2.7	.010	.03	.000	5.0	--	--
NOV 26...	.84	.53	.31	.92	4.1	.000	.00	.120	4.1	--	--
DEC 21...	.34	.00	.37	.46	2.0	.010	.03	.010	--	12	.1
JAN 28...	.16	.13	.03	.34	1.5	.030	.09	.020	3.0	--	--
FEB 25...	.15	.11	.04	.31	1.4	.010	.03	.000	3.4	--	--
APR 25...	.53	.00	.57	.66	2.9	.100	.31	.010	8.2	--	--
MAY 27...	--	--	.37	--	--	.040	.12	.020	6.3	--	--
JUN 24...	.47	.00	.50	.78	3.5	.000	.00	.000	--	6.0	.4
JUL 28...	.51	.00	.54	.60	2.7	.030	.09	.020	2.7	--	--
AUG 28...	2.6	2.3	.31	2.7	12	.020	.06	.040	1.8	--	--
SEP 29...	.51	.00	.53	.52	2.3	.060	.18	.010	--	16	--

13037500 SNAKE RIVER NEAR HEISE, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)
DEC											
21...	2	0	2	200	100	<100	0	0	<1	0	0
JUN											
24...	3	0	3	0	0	<100	0	0	1	0	0
SEP											
29...	3	0	3	100	100	<100	0	0	2	0	0

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
DEC										
21...	0	0	0	<3	1	1	0	50	30	20
JUN										
24...	0	0	--	<3	15	6	9	210	190	20
SEP										
29...	20	0	--	<3	6	2	4	70	--	<10

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
DEC									
21...	10	7	3	0	0	<10	.1	.1	.0
JAN									
28...	--	--	--	--	--	--	--	--	--
APR									
25...	--	--	--	--	--	--	--	--	--
MAY									
27...	--	--	--	--	--	--	--	--	--
JUN									
24...	7	7	0	30	20	<10	.0	.0	.0
JUL									
28...	--	--	--	--	--	--	--	--	--
AUG									
28...	--	--	--	--	--	--	--	--	--
SEP									
29...	1	0	1	10	<10	<10	.0	.0	.0

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC									
21...	0	0	0	0	0	0	10	0	10
JAN									
28...	--	--	--	0	--	--	--	--	--
APR									
25...	--	--	--	0	--	--	--	--	--
MAY									
27...	--	--	--	0	--	--	--	--	--
JUN									
24...	0	0	0	0	0	0	60	50	10
JUL									
28...	--	--	--	0	--	--	--	--	--
AUG									
28...	--	--	--	0	--	--	--	--	--
SEP									
29...	0	0	0	0	0	0	10	<10	<10

13037500 SNAKE RIVER NEAR HEISE, ID--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 26,79		MAY 27,80		JUN 24,80		JUL 28,80		SEP 29,80	
TIME	1409		1240		1406		1351		1433	
TOTAL CELLS/ML	110		1100		1500		340		940	
DIVERSITY: DIVISION	0.3		0.6		1.0		1.1		0.9	
.CLASS	0.3		0.6		1.0		1.1		0.9	
..ORDER	0.0		1.2		1.2		1.4		1.0	
...FAMILY	0.0		2.6		2.1		1.6		1.8	
....GENUS	0.0		3.0		2.2		1.6		1.8	
ORGANISM	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT	CELLS /ML	PER-CENT
CHLOROPHYTA (GREEN ALGAE)										
.CHLOROPHYCEAE										
..CHLOROCOCCALES										
...CHARACIACEAE										
....SCHROEDERIA	--	-	--	-	--	-	--	-	26	3
...OOCYSTACEAE										
....ANKISTRODESMUS	--	-	--	-	--	-	13	4	--	-
....TETRAEDRON	--	-	--	-	13	1	--	-	--	-
...SCENEDESMACEAE										
....SCENEDESMUS	--	-	--	-	51	3	--	-	--	-
..VOLVOCALES										
...CHLAMYDOMONADACEAE										
....CHLAMYDOMONAS	--	-	--	-	13	1	--	-	--	-
CHRYSOPHYTA										
.BACILLARIOPHYCEAE										
..CENTRALES										
...COSCINODISCACEAE										
....CYCLOTELLA	8	7	190#	17	39	3	--	-	13	1
....MELOSIRA	2	2	14	1	130	8	--	-	--	-
....STEPHANODISCUS	--	-	14	1	--	-	--	-	--	-
..PENNALES										
...ACHNANTHACEAE										
....ACHNANTHES	6	5	14	1	--	-	--	-	--	-
....COCCONEIS	3	3	--	-	--	-	--	-	77	8
....RHOICOSPHENIA	--	-	--	-	--	-	--	-	13	1
...CYMBELLACEAE										
....CYMBELLA	17#	15	--	-	26	2	--	-	--	-
...DIATOMACEAE										
....DIATOMA	37#	33	160	14	13	1	13	4	--	-
...FRAGILARIACEAE										
....ASTERIONELLA	--	-	57	5	--	-	--	-	--	-
....FRAGILARIA	3	3	260#	24	26	2	--	-	--	-
....SYNEDRA	3	3	--	-	--	-	--	-	--	-
...GOMPHONEMATACEAE										
....GOMPHONEMA	3	3	160	14	--	-	--	-	13	1
...NAVICULACEAE										
....NAVICULA	9	8	57	5	39	3	39	12	--	-
...NITZSCHIACEAE										
....NITZSCHIA	13	11	29	3	--	-	--	-	--	-
...SURIRELLACEAE										
....SURIRELLA	--	-	--	-	13	1	--	-	--	-
CRYPTOPHYTA (CRYPTOMONADS)										
.CRYPTOPHYCEAE	1	1	--	-	--	-	--	-	--	-
..CRYPTOMONADALES										
...CRYPTOCHRYSIDACEAE										
....CHROOMONAS	--	-	--	-	--	-	13	4	13	1
...CRYPTOMONADACEAE										
....CRYPTOMONAS	6	5	--	-	--	-	--	-	13	1
CYANOPHYTA (BLUE-GREEN ALGAE)										
.CYANOPHYCEAE										
..CHROOCOCCALES										
...CHROOCOCCACEAE										
....ANACYSTIS	--	-	--	-	--	-	26	8	--	-
..HORMOGONALES										
...NOSTOCACEAE										
....ANABAENOPSIS	--	-	--	-	590#	39	--	-	--	-
....APHANIZOMENON	--	-	--	-	--	-	--	-	540#	58
...OSCILLATORIACEAE										
....LYNGBYA	--	-	140	13	--	-	--	-	--	-
....OSCILLATORIA	--	-	--	-	570#	37	230#	69	230#	25

NOTE: # - DOMINANT ORGANISM: EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED: LESS THAN 1/2%

13037500 SNAKE RIVER NEAR HEISE, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
DEC					
21...	.160	.160	.380	.110	.00
JUN					
24...	62.7	58.1	227	1.12	20.3

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT				
29...	1235	1	4.6	--
APR				
25...	1131	31	795	81
MAY				
27...	1240	30	1480	84
JUN				
24...	1406	22	1170	37
JUL				
28...	1220	4	137	--

13038000 DRY BED NEAR RIRIE, ID

LOCATION.--Lat 43°38'21", long 111°42'55", in NE¼NW¼ sec.35, T.4 N., R.40 E., Jefferson County, Hydrologic Unit 17040201, on right bank 30 ft (9.1 m) downstream from county road bridge, 1.3 mi (2.1 km) downstream from head, and 2.7 mi (4.3 km) east of Ririe.

PERIOD OF RECORD.--1923-27 and miscellaneous measurements during 1970-72 (formerly published as Great Feeder Canal), October 1976 to current year (irrigation seasons only prior to 1977).

GAGE.--Water-stage recorder. Altitude of gage is 4,985 ft (1,520 m), from topographic map.

REMARKS.--Records fair. Flow from Snake River regulated by headgates 1.3 mi (2.1 km) upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,970 ft³/s (140.8 m³/s) June 30, 1980; no flow at times during periods of no record 1923-27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2680	964	125	110	90	95	650	2060	1970	4900	4040	2410
2	2600	968	125	105	90	95	427	2250	1900	4930	3960	2450
3	2550	1010	125	105	90	95	123	2680	1700	4820	3550	2460
4	2510	1030	123	105	95	95	18	2840	1630	4860	3280	2450
5	2480	1050	122	105	95	95	29	2970	1580	4840	3230	2480
6	2420	1030	122	100	95	95	41	3020	1540	4750	3170	2480
7	2360	1010	122	100	95	95	41	3150	1530	4600	3100	2460
8	2310	1010	122	95	95	95	23	2860	1520	4420	3120	2640
9	2050	1010	122	100	92	95	12	2770	1790	4380	3120	2800
10	1900	1020	122	100	90	160	11	2690	2010	4460	3100	2830
11	1810	1030	122	100	90	307	12	2680	2800	4660	3060	2780
12	1820	1020	120	100	90	340	11	2490	3130	4510	2980	2530
13	1850	1010	120	105	90	328	2.5	2560	3450	4490	2980	2410
14	1810	993	120	105	90	299	72	2680	3550	4710	2920	2330
15	1740	1010	120	100	90	332	213	2670	3530	4600	2980	2250
16	1670	1020	120	100	90	353	248	2610	3500	4550	2980	2130
17	1600	995	120	100	90	375	265	2630	3450	4770	2920	2070
18	1400	998	120	100	95	358	345	2660	3320	4860	2910	2020
19	1270	944	120	100	100	375	398	2690	3250	4860	2870	2010
20	1220	687	120	98	110	371	461	2750	3530	4680	2590	1910
21	1180	472	115	96	110	362	657	2790	3780	4490	2440	1890
22	1140	454	115	100	105	353	668	2920	4040	4510	2330	1870
23	1110	460	115	100	100	336	833	3110	4160	4440	2220	1870
24	1080	460	110	100	100	337	876	3060	4220	4240	2250	1820
25	1040	455	110	96	98	350	954	3000	4270	4240	2220	1740
26	1000	420	110	95	95	371	1040	2790	4240	4240	2210	1750
27	980	200	110	92	95	413	1110	2640	4550	4240	2300	1860
28	991	135	110	90	95	648	1580	2530	4730	4200	2420	1860
29	976	125	110	90	95	720	1790	2480	4840	4120	2370	1870
30	961	125	110	90	---	714	1910	2400	4970	4080	2400	2020
31	943	---	105	90	---	734	---	1980	---	4060	2400	---
TOTAL	51451	23115	3652	3072	2755	9791	14820.5	83410	94480	140510	88420	66450
MEAN	1660	771	118	99.1	95.0	316	494	2691	3149	4533	2852	2215
MAX	2680	1050	125	110	110	734	1910	3150	4970	4930	4040	2830
MIN	943	125	105	90	90	95	2.5	1980	1520	4060	2210	1740
AC-FT	102100	45850	7240	6090	5460	19420	29400	165400	187400	278700	175400	131800

CAL YR 1979 TOTAL 629657.4 MEAN 1725 MAX 4760 MIN 1.0 AC-FT 1249000
WTR YR 1980 TOTAL 581926.5 MEAN 1590 MAX 4970 MIN 2.5 AC-FT 1154000

NOTE.--No gage-height record Dec. 12 to Jan. 18, Jan. 27 to Mar. 9.

13038380 DRY BED NEAR LEWISVILLE, ID

LOCATION.--Lat 43°42'41", long 112°02'19", in SE¼NW¼NW¼ sec.6, T.4 N., R.38 E., Jefferson County, Hydrologic Unit 17040201, on right bank 1.1 mi (1.8 km) northwest of Lewisville and at mile 7.3 (11.7 km).

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,775 ft (1,458 m), from topographic map.

REMARKS.--Records good. Flow regulated at the head (see sta 13038000). Considerable diversions for irrigation above station during irrigation season.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft^3/s (31.4 m^3/s) July 30, 1978, gage height, 7.75 ft (2.362 m); minimum, 5.4 ft^3/s (0.15 m) Apr. 11, 12, 1977, gage height, 4.88 ft (1.487 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft^3/s (31.2 m^3/s) July 6, 7.66 ft (2.335 m); maximum gage height, 7.69 ft (2.344 m) Aug. 20; minimum, 7.4 ft^3/s (0.210 m^3/s) Mar. 4, 6-12, Apr. 15-16; gage height, 4.93 ft (1.503 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381	158	73	22	9.9	7.8	376	182	425	355	653	421
2	352	154	69	22	9.6	7.8	338	149	440	421	709	389
3	374	155	65	21	9.5	7.8	107	114	338	553	819	326
4	415	159	64	20	9.2	7.7	23	228	294	783	671	282
5	392	156	64	20	9.1	7.9	14	275	271	1020	653	239
6	355	152	60	19	9.1	7.8	13	146	235	1070	628	211
7	336	149	57	19	8.9	7.5	11	127	235	940	564	208
8	309	145	54	18	8.7	7.3	10	135	201	804	548	218
9	283	142	52	19	8.7	7.4	9.6	105	208	628	593	350
10	243	140	51	19	8.7	7.4	9.1	182	211	532	653	355
11	226	140	48	18	8.7	7.4	8.7	221	430	469	605	402
12	205	137	46	18	8.7	18	8.2	271	587	430	548	372
13	239	133	44	18	8.4	29	8.2	386	587	435	500	385
14	244	130	42	19	8.2	36	7.8	385	665	398	479	430
15	246	128	41	17	8.2	37	7.8	402	599	350	553	440
16	246	128	39	17	8.2	43	13	359	581	302	804	449
17	230	129	37	16	8.4	83	9.1	425	641	342	863	407
18	221	126	36	15	9.7	89	17	474	537	398	848	346
19	194	126	36	15	8.9	85	84	459	275	484	940	330
20	187	121	35	14	9.4	93	41	449	218	684	1020	282
21	224	115	33	14	8.8	93	102	363	246	617	841	246
22	214	113	33	13	8.7	89	84	298	350	553	804	235
23	214	114	31	13	8.5	91	114	394	526	587	697	235
24	205	115	30	12	8.2	95	107	435	479	576	659	228
25	195	114	29	12	8.2	102	152	521	407	678	622	194
26	184	112	28	12	8.2	117	124	548	310	605	553	179
27	177	110	27	12	7.8	117	138	553	294	790	537	179
28	184	107	26	12	8.0	250	218	444	342	659	564	188
29	179	99	25	11	8.1	342	318	338	363	537	484	154
30	174	91	24	11	---	367	232	359	367	521	464	135
31	170	---	23	10	---	380	---	389	---	622	444	---
TOTAL	7798	3898	1322	498	252.7	2639.8	2704.5	10036	11662	18143	20320	8815
MEAN	252	130	42.6	16.1	8.71	85.2	90.2	324	389	585	655	294
MAX	415	159	73	22	9.9	380	376	553	665	1070	1020	449
MIN	170	91	23	10	7.8	7.3	7.8	105	201	302	444	135
AC-FT	15470	7730	2620	988	501	5240	5360	19910	23130	35990	40300	17480

CAL YR 1979 TOTAL 76613.3 MEAN 210 MAX 799 MIN 5.8 AC-FT 152000
WTR YR 1980 TOTAL 88089.0 MEAN 241 MAX 1070 MIN 7.3 AC-FT 174700

13038500 SNAKE RIVER AT LORENZO, ID

LOCATION.--Lat 43°44'06", long 111°52'33", in NE¼SW¼ sec.28, T.5 N., R.39 E., Jefferson County, Hydrologic Unit 17040201, on left bank 0.5 mi (0.80 km) downstream from bridge on U.S. Highway 191, 0.5 mi (9.80 km) north of Lorenzo, 5.5 mi (0.85 km) upstream from Henrys Fork, and at mile 837.9 (1348.2 km).

DRAINAGE AREA.--5,810 mi² (15,048 km²).

PERIOD OF RECORD.--January 1978 to current year. Prior to January 1978 monthly mean discharges for the period April to September for the years 1924 to 1927 published in WSP 1317.

GAGE.--Water-stage recorder. Altitude of gage is 4,850 ft (1478 m), from topographic map. Prior to January 1978 at site 0.5 mi (0.80 km) upstream at different datum.

REMARKS.--Records fair except those for July to September, which are poor. Flow partly regulated by Jackson Lake (13010500) and Palisades Reservoir (13032450). Some diurnal fluctuations during winter from power-plant operations at Palisades. Diversions above station for irrigation in Wyoming and Idaho of about 111,600 acres (45,160 hm²) 1966 determination.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,000 ft³/s (1,218 m³/s) May 19, 1927, result of washing out of landslide on Gros Ventre River, gage height, 9.85 ft (3.00 m) site and datum then in use; maximum discharge excluding 1927, 12,400 ft³/s (351 m³/s) June 10, 1980, gage height, 10.98 ft (3.347 m); minimum discharge, 48 ft³/s (1.36 m³/s) Nov. 15, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,400 ft³/s (351 m³/s) June 10, gage height, 10.98 ft (3.347 m); minimum, 48 ft³/s (1.36 m³/s) Nov. 15, gage height, 2.48 ft (0.756 m).

Rating tables (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used July 24 to Sept. 30;
stage-discharge relation affected by ice Dec. 28 to Jan. 1, Jan. 7-8,
Jan. 21, 22, Jan. 28 to Feb. 4, Feb. 10, 11,

2.4	20	4.5	1300
2.6	90	5.0	1850
3.0	280	7.0	4800
3.5	540	9.0	8450
4.0	860	11.0	12400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2190	260	1110	950	920	850	5880	7730	11600	9030	6420	2550
2	1950	200	986	972	930	820	6020	7500	11600	8690	6170	2640
3	1840	175	986	945	930	820	6340	7220	11700	8890	6330	2650
4	1900	175	980	952	940	840	6510	7460	11400	8770	5830	2680
5	1830	165	964	952	958	900	6540	7710	11300	8790	5400	3140
6	1690	160	965	942	924	838	6530	8100	10400	8790	4920	2820
7	1640	160	970	940	908	785	6490	7910	12100	8280	4430	2820
8	1450	160	966	940	892	753	5720	7950	12200	7230	4430	2930
9	1490	162	953	945	868	753	2730	8470	12200	6280	4460	2820
10	1690	126	950	978	860	759	2380	8820	12100	6140	4450	2940
11	1470	144	938	974	860	845	2300	8990	11800	6300	4190	2840
12	1350	131	937	1010	876	772	2260	9360	11500	6700	3870	2680
13	1280	126	925	1090	876	708	2250	10000	11100	6660	3710	2640
14	1250	122	928	1310	884	702	2200	10200	10900	6650	3450	2270
15	1140	117	920	1240	908	714	2110	10100	11200	6720	3590	1950
16	1050	144	916	1070	896	666	2040	9330	11300	7100	3680	1690
17	927	135	921	1020	901	612	2080	9200	11300	7330	3410	1500
18	872	144	914	976	1100	648	2070	9200	10300	7690	2990	1300
19	892	162	906	958	1510	642	2010	9160	9130	7980	2960	1160
20	935	317	910	949	1780	648	2040	9330	9700	7690	2940	1080
21	927	641	903	950	1500	654	2530	9380	10700	7350	2580	1020
22	86[illegible]	669	909	950	1300	630	4190	9490	10900	6840	2280	940
23	821	696	910	949	1250	639	6070	9450	10800	6630	1980	810
24	795	712	893	916	1200	627	7490	9500	10800	6700	1850	750
25	768	717	886	916	950	634	7340	9930	10500	6700	1610	720
26	695	714	877	940	880	598	7350	10200	9720	6630	1490	672
27	542	696	867	924	850	732	8290	10800	9740	6300	1620	618
28	479	690	870	920	850	3620	8140	11300	9670	6320	1570	603
29	432	767	880	920	880	5710	7920	11500	9640	6210	2310	602
30	370	1110	880	920	---	5840	7840	11600	9510	6260	2550	659
31	310	---	900	920	---	5850	---	11700	---	6330	2620	---
TOTAL	35815	10697	28820	30339	29293	40609	143660	288590	326810	223980	110090	54464
MEAN	1155	357	930	979	1010	1310	4789	9309	10890	7225	3551	1815
MAX	2190	1110	1110	1310	1780	5850	8290	11700	12200	9030	6420	3140
MIN	310	117	867	916	808	598	2010	7220	9130	6140	1490	602
AC-FT	71040	21220	57160	60180	58100	80550	284900	572400	648200	444300	218400	108000

CAL YR 1979 TOTAL 1525092 MEAN 4178 MAX 9240 MIN 117 AC-FT 3025000
WTR YR 1980 TOTAL 1323167 MEAN 3615 MAX 12200 MIN 117 AC-FT 2625000

13039000 HENRYS LAKE NEAR LAKE, ID

LOCATION.--Lat 44°35'51", long 111°21'10", in SW¼NW¼ sec.26, T.15 N., R.43 E., Fremont County, Hydrologic Unit 17040202, at dam on Henrys Fork, 5.2 mi (8.4 km) south of former Lake, Idaho, Post Office.

DRAINAGE AREA.--99.0 mi² (256.4 km²), including 6.2 mi² (16.1 km²) of Dry Creek basin.

PERIOD OF RECORD.--June 1923 to current year (fragmentary).

GAGE.--Water-stage record. Datum of gage is 6,457.16 ft (1,966.21 m) National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). Prior to June 28, 1978, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed on natural lake by concrete dam supported by downstream earth-fill dam; storage began Sept. 21, 1922; dam completed July 1923. Capacity, 90,420 acre-ft (111 hm³) between gage heights 0.0 (low-water level of Henrys Lake prior to construction of dam) and 16.7 ft (5.09 m) top of 4.7-ft (1.43-m) flashboards on spillway. Floodwaters of Dry Creek are diverted into Henrys Lake at times (some diverted during water year 1980). Water used for irrigation near St. Anthony. Records given herein represent usable contents.

COOPERATION.--Capacity table and occasional reservoir elevations furnished by North Fork Reservoir Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 92,100 acre-ft (114 hm³) June 26, 1969, gage height, 16.95 ft (5.166 m); minimum observed, 140 acre-ft (0.173 hm³) Nov. 8, 1934, gage height, 0.03 ft (0.009 m).

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 91,000 acre-ft (112 hm³) May 26, gage height, 16.78 ft (5.115 m), maximum gage height, 17.50 ft (5.334 m) June 20, wind affected; minimum daily contents 80,800 acre-ft (99.6 hm³) Sept. 7-9, gage height, 15.22 ft (4.639 m), minimum gage height 13.35 ft (4.069 m) Nov. 30, wind affected.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81700	82000	83200	84200	85300	86300	86600	89500	90200	89500	84900	81200
2	81600	82200	83200	84200	85300	86400	86600	89400	90200	89500	84700	81300
3	81600	82300	83200	84300	85300	86200	86600	89400	90000	89500	84500	81000
4	81500	82700	83100	84500	85400	86300	86700	89300	90200	89700	84100	80900
5	81500	82600	83300	84500	85400	86200	86700	89400	90000	89700	84000	80900
6	81500	82700	83400	84400	85400	86200	86700	89500	90100	89600	83800	80900
7	81600	82600	83300	84300	85500	86200	86700	89700	90200	89600	83400	80800
8	81600	82700	83400	84300	85500	86100	86700	89900	90200	89700	83100	80800
9	81200	82800	83400	84500	85500	86200	86800	90000	90200	89600	83000	80800
10	81300	82900	83400	84700	85600	86200	86800	89900	89900	89400	82800	80900
11	81300	82700	83600	84800	85600	86200	86800	89800	89900	89300	82700	81300
12	81300	82600	83500	84900	85600	86100	86800	89800	89700	89200	82300	81300
13	81300	82800	83400	85100	85500	86200	86800	89800	89800	89100	82100	81600
14	81400	82600	83800	85000	85600	86300	86800	89600	89600	88800	82000	81600
15	81700	82700	83800	85100	85600	86400	86800	89700	89700	88800	81800	81700
16	81800	82700	83900	85100	85700	86400	86800	89700	89700	88700	81800	81500
17	81800	82800	83800	85200	85800	86400	86900	89700	89900	88500	81800	81500
18	81500	82900	83700	85100	86000	86400	87000	89600	89900	88300	82200	81400
19	81600	83200	83700	85100	86000	86400	87300	89700	89900	88100	82300	81100
20	81600	83000	83800	85200	86100	86400	87500	89700	90000	87600	82300	80900
21	81800	82900	83800	85300	86200	86500	87700	89700	90300	87200	82300	81000
22	82000	82900	84000	85300	86200	86500	88100	89900	90400	87000	82200	81100
23	81900	83100	84000	85200	86200	86500	88500	90100	90200	86500	82200	81200
24	81900	82900	84000	85200	86200	86500	88700	90300	90200	86400	82100	81300
25	82000	82900	84100	85100	86100	86500	88700	90800	90100	86200	81600	81400
26	81800	82900	84300	84900	86200	86500	89000	91000	89900	85900	81600	81500
27	82000	83100	84200	84900	86100	86500	88900	90600	89600	85800	81500	81500
28	81800	83200	84100	85000	86200	86600	88900	90600	89500	85600	81400	81600
29	81500	83200	84200	85200	86200	86600	89100	90600	89500	85300	81300	81600
30	81900	83200	84300	85200	---	86600	89300	90300	89500	85100	81100	81700
31	81800	---	84300	85200	---	86600	---	90200	---	85100	81100	---
MAX	82000	83200	84300	85300	86200	86600	89300	91000	90400	89700	84900	81700
MIN	81200	82000	83100	84200	85300	86100	86600	89300	89500	85100	81100	80800
(†)	15.38	15.60	15.70	--	--	--	16.53	16.67	16.57	15.89	15.27	15.37
(‡)	0	+1400	+1100	+900	+1000	+400	+2700	+900	-700	-4400	-4000	+600

CAL YR 1979............. ‡ -1700
WTR YR 1980............. ‡ -100

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet, at end of month.

13039500 HENRYS FORK NEAR LAKE, ID

LOCATION.--Lat 44°35'42", long 111°20'57", in NE¼SW¼ sec.26, T.15 N., R.43 E., Fremont County, Hydrologic Unit 17040202, on left bank 0.2 mi (0.3 km) downstream from Henrys Lake Dam, 5.4 mi (8.7 km) south of former Lake Post Office, and at mile 117.1 (188.4 km).

DRAINAGE AREA.--99.3 mi² (257.2 km²) including 6.2 mi² (16.1 km²) of Dry Creek basin.

PERIOD OF RECORD.--May 1920 to current year (prior to October 1929, irrigation seasons only). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6,449.87 ft (1,965.9203 m) National Geodetic Vertical Datum of 1929, Corps of Engineers bench mark (levels by Bureau of Reclamation. May 1920 to September 1922, nonrecording gage at site 3 mi (4.8 km) downstream and below mouth of Dry Creek at different datum. September 1922 to July 30, 1978, recording gage at site 125 ft (38.1 m) upstream at different datum.

REMARKS.--Records fair except those for winter periods, which are poor. Flow regulated by Henrys Lake (see sta 13039000). Since 1923, floodwaters of Dry (Tygee) Creek have been diverted at times into Henrys Lake (some diverted during 1980).

AVERAGE DISCHARGE.--51 years (1930-80), 52.6 ft³/s (1.490 m³/s), 38,100 acre-ft/yr (47.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 907 ft³/s (25.7 m³/s) June 13, 1926, gage height, 5.40 ft (1.646 m); no flow for part of each day Sept. 17, 18, 1952, Sept. 5, 7-30, Oct. 1, 2, 1966, Sept. 18 to Oct. 6, 1977. Outflow from Henrys Lake was reported to have ceased entirely late in summer of 1889.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 228 ft³/s (6.457 m³/s) June 20, gage height, 1.86 ft (0.567 m); maximum gage height, 1.95 ft (0.594 m) July 23 (backwater from moss); minimum discharge, 5.0 ft³/s (0.142 m³/s) Oct. 10, 11; minimum observed gage height, 0.42 ft (0.128 m) Jan. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	8.9	10	16	16	21	32	75	180	86	94	56
2	10	8.4	11	16	17	21	33	74	180	88	94	56
3	9.5	8.4	12	16	17	22	34	75	175	94	93	55
4	9.7	8.9	12	15	17	22	36	74	178	97	92	57
5	9.6	8.9	11	16	18	21	37	70	173	95	92	58
6	9.8	9.8	11	15	18	20	36	69	176	93	92	60
7	9.6	10	12	15	18	19	35	68	185	91	93	60
8	11	11	12	14	18	19	34	75	178	94	92	63
9	10	11	12	15	18	21	33	84	172	91	92	64
10	8.5	11	12	15	18	24	32	91	164	88	93	65
11	5.4	12	11	15	18	23	32	92	165	84	95	68
12	6.1	12	11	15	18	22	32	90	142	82	96	70
13	6.3	13	11	16	19	23	33	87	115	79	96	72
14	6.7	13	11	17	20	25	33	95	115	77	96	74
15	7.2	13	12	17	21	24	34	103	114	76	98	73
16	8.0	13	12	17	22	22	34	107	107	72	99	74
17	8.0	14	13	17	21	22	33	111	98	73	100	74
18	9.0	15	14	16	22	24	34	106	100	144	99	75
19	10	15	16	16	21	26	34	105	98	205	102	76
20	9.8	15	15	16	22	28	35	105	104	195	102	77
21	10	14	14	16	21	26	37	104	105	185	102	61
22	9.6	14	13	14	22	27	40	105	104	179	100	24
23	9.6	13	13	14	21	27	45	105	105	175	99	24
24	9.6	13	13	15	20	26	49	114	101	129	100	25
25	9.4	12	14	15	20	25	54	126	98	98	100	25
26	9.7	11	13	15	22	28	63	169	96	96	100	28
27	10	10	13	14	24	28	73	201	89	95	99	25
28	11	11	13	13	22	27	77	196	87	94	88	24
29	11	10	13	14	22	30	86	191	85	93	58	26
30	8.6	10	14	14	---	32	101	187	86	93	58	26
31	8.6	---	15	15	---	31	---	187	---	93	57	---
TOTAL	280.9	349.3	389	474	573	756	1301	3441	3875	3334	2871	1613
MEAN	9.06	11.6	12.5	15.3	19.8	24.4	43.4	111	129	108	92.6	53.8
MAX	11	15	16	17	24	32	101	201	185	205	102	77
MIN	5.4	8.4	10	13	16	19	32	68	85	72	57	24
AC-FT	557	693	772	940	1140	1500	2580	6830	7690	6610	5690	3200

CAL YR 1979 TOTAL 12855.8 MEAN 35.2 MAX 189 MIN 5.4 AC-FT 25500
WTR YR 1980 TOTAL 19257.2 MEAN 52.6 MAX 205 MIN 5.4 AC-FT 38200

NOTE.--No gage-height record Dec. 1 to Apr. 25.

13042500 HENRYS FORK NEAR ISLAND PARK, ID

LOCATION.--Lat 44°24'59", long 111°23'41", in SW¼SW¼ sec.28, T.13 N., R.43 E., Fremont County, Hydrologic Unit 17040202, Targhee National Forest, on left bank 0.2 mi (0.3 km) downstream from Island Park Dam, 0.2 mi (0.3 km) upstream from Buffalo River, 1 mi (1.6 km) southwest of Island Park Post Office, and at mile 91.5 (147.2 km).

DRAINAGE AREA.--481 mi² (1,246 km²). Mean altitude, 7,080 ft (2,160 m).

PERIOD OF RECORD.--January 1933 to current year.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 6,225 ft (1,897 m) from river-profile map. Prior to May 15, 1935, nonrecording gage at site about 0.8 mi (1.3 km) upstream at different datum. May 15 to Nov. 30, 1935, water-stage recorder at site 1,000 ft (305 m) downstream at different datum.

REMARKS.--Records fair. Flow regulated by Henrys Lake (see sta 13039000) and Island Park Reservoir (see sta 1304200). Diversions above station for irrigation of about 15,500 acres (6,270 hm²), 1966 determination; a considerable portion of which consists of partly subirrigated meadows.

AVERAGE DISCHARGE.--47 years, 596 ft³/s (16.88 m³/s), 431,800 acre-ft/yr (532 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,770 ft³/s (78.4 m³/s) Apr. 26, 1946, gage height, 6.15 ft (1.875 m); minimum daily, 1 ft³/s (0.028 m³/s) Nov. 16 to Dec. 7, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft³/s (58.3 m³/s) July 1, gage height, 5.37 ft (1.637 m); minimum daily, 1.1 ft³/s (0.031 m³/s) Oct. 31, Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	1.1	2.4	124	124	124	3.9	1500	1270	1770	1610	641
2	3.0	1.2	2.4	124	124	124	3.9	1460	1290	1980	1600	636
3	3.0	1.2	2.4	124	124	124	3.9	1330	1300	2000	1600	636
4	3.0	1.2	122	124	124	124	3.9	1230	1360	2030	1540	636
5	3.0	1.4	122	124	124	124	3.9	1140	1360	2030	1470	636
6	3.0	1.4	122	124	124	124	3.9	1060	1340	2030	1390	637
7	3.0	1.5	122	124	124	124	3.9	1030	1370	2040	1340	641
8	3.0	1.8	122	124	124	124	3.9	1020	1370	1690	1290	641
9	3.0	2.0	122	124	124	124	8.6	1020	1340	1290	1280	641
10	3.0	1.9	124	124	124	124	86	999	1290	955	1270	641
11	3.0	1.9	124	124	124	124	156	957	1250	1060	1270	641
12	3.0	1.9	124	124	124	124	203	953	1250	1190	1210	641
13	3.0	1.9	124	124	124	124	281	924	1190	1290	1170	641
14	3.0	2.1	124	124	124	124	347	921	1140	1550	1170	641
15	3.0	2.4	124	124	124	124	388	891	1110	1540	1210	641
16	3.0	2.4	124	124	124	124	414	906	1110	1540	1230	641
17	3.0	2.4	124	124	124	124	436	934	1080	1380	1230	641
18	3.1	2.4	124	124	124	89	466	953	1050	1300	1230	635
19	2.2	2.4	124	124	124	124	489	927	1010	1430	860	636
20	1.6	2.4	124	124	124	124	510	908	978	1500	706	636
21	1.7	2.4	124	124	124	124	551	908	953	1500	706	636
22	1.7	2.4	124	124	124	53	594	892	935	1500	620	462
23	1.6	2.4	124	124	124	3.9	653	901	932	1510	583	367
24	2.0	2.4	124	124	124	3.9	739	968	878	1500	578	367
25	1.8	2.4	124	124	124	3.9	844	1030	854	1580	578	367
26	2.1	2.4	124	124	124	3.9	993	1120	991	1610	573	367
27	2.4	2.4	124	124	124	3.9	1140	1130	1330	1610	573	367
28	3.1	2.4	124	124	124	3.9	1290	1160	1220	1610	564	367
29	4.0	2.4	124	124	124	3.9	1410	1200	1110	1610	614	367
30	3.0	2.4	124	124	---	3.9	1500	1210	1280	1610	641	367
31	1.1	---	124	124	---	3.9	---	1250	---	1610	641	---
TOTAL	252.2	60.9	3467.2	3844	3596	2657.1	13526.8	32817	34941	48865	32391	16655
MEAN	8.14	2.03	112	124	124	85.7	451	1059	1165	1576	1045	555
MAX	172	2.4	124	124	124	124	1500	1500	1370	2040	1610	641
MIN	1.1	1.1	2.4	124	124	3.9	3.9	891	854	955	564	367
AC-FT	500	121	6880	7620	7130	5270	26830	65090	69310	96920	64250	33040

CAL YR 1979 TOTAL 221524.3 MEAN 607 MAX 1490 MIN 1.1 AC-FT 439400
WTR YR 1980 TOTAL 193053.2 MEAN 527 MAX 2040 MIN 1.1 AC-FT 382900

13046000 HENRYS FORK NEAR ASHTON, ID

LOCATION.--Lat 44°04'30", long 111°29'58", in SE¼SE¼ sec.28, T.9 N., R.42 E., Fremont County, Hydrologic Unit 17040203, on right bank 0.3 mi (0.5 km) downstream from powerplant, 2.6 mi (4.2 km) west of Ashton, and at mile 44.7 (71.9 km).

DRAINAGE AREA.--1,040 mi² (2,694 km²). Mean altitude, 6,710 ft (2,050 m).

PERIOD OF RECORD.--April 1890 to June 1891, August 1902 to June 1909, April 1920 to current year (seasonal records only 1920-26). Monthly discharge only for some periods, published in WSP 1317. Published as Henrys Fork in canyon, above Fall River 1890-91, and as North Fork of Snake River near Ora 1902-9.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1890-91.

GAGE.--Water-stage recorder. Altitude of gage is 5,095 ft (1,553 m) from river-profile map. April 1890 to June 1891, nonrecording gage at site 6 mi (9.7 km) downstream at different datum. August 1902 to Apr. 15, 1921, nonrecording gage and Apr. 16, 1921, to May 3, 1930, water-stage recorder at site 1.5 mi (2.4 km) downstream at different datum.

REMARKS.--Records fair. Diurnal fluctuation caused by powerplant above station. Flow regulated by Henrys Lake (see sta 13039000) and Island Park Reservoir (see sta 13042000). Diversions above station for irrigation of about 24,500 acres or 9,920 hm² (1966 determination).

AVERAGE DISCHARGE.--60 years (1903-8, 1927-80), 1,455 ft³/s (41.21 m³/s), 1,054,000 acre-ft/yr (1,300 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,220 ft³/s (176 m³/s) May 7, 1925, gage height, 3.11 ft (0.948 m, site and datum then in use); minimum, 53 ft³/s (1.50 m³/s) Sept. 20, 1960, gage height, 5.45 ft (1.661 m); minimum daily, 171 ft³/s (4.84 m³/s) Oct. 18, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,830 ft³/s (137 m³/s) Apr. 26, gage height, 7.47 ft (2.277 m); minimum, 260 ft³/s (7.36 m³/s) Sept. 13; minimum gage height, 5.28 ft (1.609 m) Apr. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1420	800	762	935	935	847	744	3810	3320	2530	2700	1610
2	845	795	895	921	934	969	781	3690	3530	3250	2730	1590
3	740	796	910	949	923	933	785	3320	3380	3260	2770	1590
4	740	824	928	802	942	887	801	3110	3280	3330	2760	1560
5	760	820	902	936	817	1030	821	2950	3150	3090	2760	1560
6	771	772	917	878	936	869	847	2830	2970	3050	2540	1570
7	762	803	918	747	944	952	827	2690	2980	3000	2530	1580
8	762	785	898	944	792	815	685	2630	2850	2980	2320	1610
9	769	774	917	940	824	962	781	2720	2700	2410	2420	1660
10	765	779	919	819	943	830	854	2640	2630	1880	2410	1570
11	805	777	779	874	822	947	867	2440	2540	1820	2350	1660
12	777	764	780	933	959	961	899	2330	2510	2010	2410	1670
13	789	756	874	909	958	985	918	2380	2460	2200	2330	1780
14	789	734	910	1000	814	829	1030	1970	2370	2400	2300	1800
15	843	779	784	974	942	978	1090	2050	2350	2480	2380	1540
16	843	744	947	886	815	957	1120	2170	2320	2440	2600	1740
17	829	802	892	867	1000	830	1180	2240	2230	2390	2530	1610
18	829	819	836	880	1040	1200	1250	2260	2140	2200	2540	1610
19	965	770	865	764	984	1110	1350	2150	2120	2190	2720	1490
20	948	744	898	747	1010	759	1460	2060	2110	2490	1850	1660
21	890	676	880	959	963	773	1880	2000	2010	2450	1820	2080
22	838	726	921	795	930	784	1620	1990	2010	2460	1680	1750
23	836	774	827	951	965	801	2290	2050	1970	2480	1640	1610
24	826	792	894	848	971	785	2660	2070	1950	2510	1430	1250
25	828	789	935	869	825	773	3430	2320	1860	2520	1460	1300
26	802	814	894	755	913	749	3710	2670	1850	2630	1500	1330
27	794	760	802	706	936	777	3590	2700	2270	2620	1490	1510
28	846	703	752	713	983	769	3600	2920	2310	2690	1520	1350
29	823	701	777	927	937	764	3770	3140	2110	2690	1490	1010
30	800	717	880	943	---	801	3960	3340	2100	2720	1600	927
31	791	---	894	777	---	841	---	3310	---	2710	1740	---
TOTAL	25825	23089	26987	26968	26757	27267	49790	80950	74380	79880	67320	46577
MEAN	833	770	871	870	923	880	1660	2611	2479	2577	2172	1553
MAX	1420	824	947	1000	1040	1200	3960	3810	3530	3330	2770	2080
MIN	740	676	752	706	792	749	744	1970	1850	1820	1430	927
AC-FT	51220	45800	53530	53490	53070	54080	98760	160600	147500	158400	133500	92390

CAL YR 1979 TOTAL 568921 MEAN 1559 MAX 3400 MIN 676 AC-FT 1128000
WTR YR 1980 TOTAL 555790 MEAN 1519 MAX 3960 MIN 676 AC-FT 1102000

13047500 FALLS RIVER NEAR SQUIRREL, ID

LOCATION.--Lat 44°04'07", long 111°14'25", in NW¼NE¼ sec.34, T.9 N., R.44 E., Fremont County, Hydrologic Unit 17040203, on right bank 0.2 mi (0.3 km) upstream from road bridge, 0.5 mi (0.8 km) downstream from headgates of Marysville Canal, 4 mi (6.4 km) northeast of Squirrel, 10.8 mi (17.4 km) upstream from Conant Creek, and at mile 19.8 (31.9 km).

DRAINAGE AREA.--326 mi² (844 km²). Mean altitude, 7,520 ft (2,290 m).

PERIOD OF RECORD.--August 1902 to June 1909 (gage heights only prior to October 1904), May 1918 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as Fall River at Wilson's Mill, near Marysville 1902, as Fall River near Marysville 1903, as Fall River at Fremont 1904-9, and as Fall River near Squirrel 1918-59.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1317: 1908. WSP 1347: 1905.

GAGE.--Water-stage recorder. Altitude of gage is 5,590 ft (1,704 m) from topographic map. Prior to Jan. 1, 1904, nonrecording gages at site 3 mi (4.8 km) upstream at different datum, Jan. 1, 1904 to Nov. 6, 1937, nonrecording gage at site 200 ft (61 m) upstream at different datum, and Nov. 7, 1937, to Oct. 7, 1948, nonrecording gage at site 100 ft (30 m) downstream at datum 0.29 ft (0.088 m) lower.

REMARKS.--Records good except those for December, which are fair. Flow since October 1939 partly regulated by Grassy Lake (see sta 13046500). Diversions above station for irrigation of about 17,000 acres (6,880 hm²) below station and in adjacent basins, and diversions from tributary upstream from station for irrigation of about 500 acres (200 hm²) 1966 determination.

AVERAGE DISCHARGE.--66 years (1905-8, 1919-80), 776 ft³/s (21.98 m³/s), 562,200 acre-ft/yr (693 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 6,440 ft³/s (182 m³/s) June 27, 1927; minimum observed, 72 ft³/s (2.04 m³/s) Feb. 9, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,100 ft³/s (87.8 m³/s) May 24, gage height, 3.44 ft (1.049 m); minimum daily, 330 ft³/s (9.35 m³/s) Jan. 28.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 27 to Jan. 4, Apr. 11 to June 18, Sept. 21-30;
stage-discharge relation affected by ice Dec. 27-29, Jan. 21-30)

1.0	306	3.0	2,220
1.5	611	4.0	3,700
2.0	1,050		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	375	436	390	431	398	366	349	2600	2100	1090	524	541
2	372	437	460	408	399	368	342	2540	2190	1040	527	520
3	381	465	510	407	394	377	344	2340	2000	1540	527	584
4	391	509	500	412	399	377	348	2220	1810	1290	520	555
5	392	510	470	420	371	380	356	2380	1660	1070	515	547
6	392	491	460	394	363	376	363	2440	1620	990	517	542
7	392	481	475	389	353	366	354	2610	1580	931	481	543
8	388	480	450	409	350	361	345	2470	1500	883	482	553
9	386	487	450	423	358	360	351	2440	1500	846	481	539
10	383	472	440	424	365	360	350	2380	1750	828	480	550
11	394	489	400	396	374	361	350	2170	1850	733	475	687
12	399	459	445	419	384	371	350	1870	2000	701	468	673
13	403	441	490	452	358	357	350	1700	2050	695	471	631
14	405	449	490	480	359	356	371	1640	1950	694	465	620
15	423	448	485	438	367	367	410	1660	1900	694	504	567
16	509	444	480	420	360	356	410	1870	1850	640	599	565
17	439	458	475	412	370	335	439	1900	1700	626	574	544
18	438	478	460	410	397	340	504	1830	1650	604	536	543
19	646	458	460	392	388	356	604	1940	1650	651	618	579
20	598	426	460	387	365	345	767	2040	1800	631	602	551
21	507	426	450	370	374	348	912	2240	1850	618	560	646
22	480	416	440	370	364	345	1020	2430	1850	605	540	597
23	478	434	400	370	372	347	1210	2800	1880	590	539	563
24	471	452	440	370	361	344	1410	3000	1750	593	529	573
25	468	459	450	360	358	348	1540	2730	1700	601	516	545
26	469	453	410	350	358	342	1790	2240	1650	570	522	535
27	453	451	405	335	370	350	1930	2000	1570	555	533	527
28	464	420	365	330	375	342	2100	1960	1380	539	542	544
29	459	370	350	350	381	334	2260	2040	1300	541	526	553
30	437	360	409	370	---	361	2600	2070	1150	555	523	528
31	442	---	440	383	---	348	---	2030	---	532	532	---
TOTAL	13634	13559	13809	12281	10825	11044	24829	68580	52190	23476	16228	17045
MEAN	440	452	445	396	373	356	828	2212	1740	757	523	568
MAX	646	510	510	480	399	380	2600	3000	2190	1540	618	687
MIN	372	360	350	330	350	334	342	1640	1150	532	465	520
AC-FT	27040	26890	27390	24360	21470	21910	49250	136000	103500	46560	32190	33810

CAL YR 1979 TOTAL 275609 MEAN 755 MAX 3640 MIN 275 AC-FT 546700
WTR YR 1980 TOTAL 277500 MEAN 758 MAX 3000 MIN 330 AC-FT 550400

13049500 FALLS RIVER NEAR CHESTER, ID

LOCATION.--Lat 44°01'06", long 111°33'57", in NW¼SE¼ sec.13, T.8 N., R.41 E., Fremont County, Hydrologic Unit 17040203, on right bank, 0.2 mi (0.3 km) upstream from highway bridge, at mile 0.8 (1.3 km), and 1.5 mi (2.4 km) north of Chester.

DRAINAGE AREA.--520 mi² (1,350 km²), approximately. Mean altitude, 6,970 ft (2,124 m).

PERIOD OF RECORD.--April 1920 to current year (irrigation seasons only prior to 1962). Prior to October 1959, published as Fall River near Chester.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 5,051.9 ft (1,539.82 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 9, 1920, nonrecording gage at site 200 ft (61 m) downstream at same datum. Aug. 9, 1920, to Apr. 28, 1921, nonrecording gage at present site and datum.

REMARKS.--Records good except those for winter period, which are fair. Flow since October 1939 partly regulated by Grassy Lake (see sta 13046500). Diversions above station for irrigation of about 4,600 acres (1,860 hm²) above station and about 36,000 acres (14,600 hm²) in adjacent basins (1966 determination). Station is below all diversions from Falls River.

AVERAGE DISCHARGE.--19 years (1961-80), 758 ft³/s (21.47 m³/s), 549,200 acre-ft/yr (677 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 6,380 ft³/s (181 m³/s) June 27, 1927, gage height, 6.60 ft (2.012 m); maximum gage height recorded, 7.93 ft (2.417 m) Jan. 18, 1966 (backwater from ice); minimum discharge recorded, 7 ft³/s (0.198 m³/s) June 27, 1961, gage height, 0.74 ft (0.226 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,090 ft³/s (87.5 m³/s) Apr. 30, gage height, 4.72 ft (1.439 m); minimum, 120 ft³/s (3.40 m³/s) July 28-29, Aug. 8, gage height, 1.52 ft (0.463 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 17 to June 14;
stage-discharge relation affected by ice Nov. 23 to Feb. 24, Apr. 10)

1.3	63	3.0	881
1.9	221	4.0	1930
2.2	350	5.0	3410
2.5	520		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	457	500	480	440	431	412	2740	2190	482	156	356
2	165	477	550	460	440	425	412	2730	2270	472	178	346
3	177	492	560	460	440	437	410	2450	2100	1030	174	390
4	183	551	540	470	450	454	413	2280	1860	848	176	389
5	184	565	530	470	430	442	439	2370	1660	610	169	379
6	181	540	520	460	420	442	450	2410	1600	549	170	379
7	184	525	530	460	400	419	417	2590	1520	462	144	383
8	182	512	530	480	400	414	392	2480	1470	424	137	388
9	184	527	520	480	410	408	394	2430	1490	431	148	367
10	217	507	500	480	420	419	390	2410	1600	337	151	384
11	248	517	480	465	430	454	390	2220	1740	272	145	506
12	267	502	520	490	440	448	393	1830	1860	226	141	539
13	283	499	540	520	415	419	405	1610	1920	205	135	487
14	282	507	550	540	420	431	435	1530	1880	206	132	510
15	304	509	540	510	420	442	485	1520	1860	213	163	437
16	411	505	535	490	420	431	480	1690	1680	154	383	426
17	364	521	530	470	430	397	496	1830	1430	162	339	411
18	359	543	520	460	450	397	561	1710	1460	160	284	403
19	498	530	515	450	450	419	660	1800	1590	161	382	436
20	577	490	505	430	440	408	842	1910	1720	173	391	416
21	457	463	500	420	430	414	1040	2110	1730	160	364	481
22	419	461	490	415	440	409	1120	2350	1760	132	348	488
23	410	480	470	415	430	409	1290	2580	1750	127	334	434
24	440	500	500	415	420	405	1530	2950	1520	134	322	438
25	450	510	510	410	419	421	1660	2790	1180	152	311	431
26	446	500	490	400	414	405	2060	2320	1060	139	313	413
27	445	490	470	390	419	410	2150	2050	996	135	321	417
28	445	480	430	370	431	405	2330	1980	791	131	342	415
29	452	450	460	400	460	402	2470	2000	626	128	321	424
30	436	430	480	425	---	420	2830	2100	557	138	315	399
31	428	---	490	440	---	418	---	2010	---	136	333	---
TOTAL	10241	15040	15805	14025	12428	13055	27756	67780	46870	9089	7639	12667
MEAN	330	501	510	452	429	421	925	2186	1562	293	246	422
MAX	577	565	560	540	460	454	2830	2950	2270	1030	391	539
MIN	163	430	430	370	400	397	390	1520	557	127	132	346
AC-FT	20310	29830	31350	27820	24650	25890	55050	134400	92970	18030	15150	25120

CAL YR 1979 TOTAL 251003 MEAN 688 MAX 3430 MIN 67 AC-FT 497900
WTR YR 1980 TOTAL 252395 MEAN 690 MAX 2950 MIN 127 AC-FT 500600

13050500 HENRYS FORK AT ST. ANTHONY, ID

LOCATION.--Lat 43°58'00", long 111°40'20", in NW¼ sec.6, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040203, on right bank 0.5 mi (0.8 km) upstream from bridge on main street of St. Anthony, 6.4 mi (10.3 km) downstream from Falls River, and at mile 32.4 (52.1 km).

DRAINAGE AREA.--1,770 mi² (4,580 km²), approximately. Mean altitude, 6,670 ft (2,033 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1919 to current year (irrigation seasons only prior to 1962).

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1317: 1923(M).

GAGE.--Water-stage recorder. Datum of gage is 4,950.7 ft (1,508.97 m) National Geodetic Vertical Datum of 1929. March 1919 to May 7, 1922, nonrecording gages and May 8, 1922, to Aug. 14, 1931, water-stage recorder, at site 150 ft (46 m) downstream at datum 0.08 ft (0.024 m) lower.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 21,000 acres (8,500 hm²) below and about 58,000 acres (23,500 hm²) above station of which about 1,100 acres (450 hm²) are by withdrawals from ground water (1966 determination). Flow regulated by powerplant 17 mi (27.4 km) above station and by Henrys Lake (see sta 13039000), Island Park Reservoir (see sta 13042000), and Grassy Lake (see sta 13046500).

AVERAGE DISCHARGE.--19 years (1962-80), 1,915 ft³/s (54.2 m³/s) 1,387,000 acre-ft/yr (1,710 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 11,500 ft³/s (326 m³/s) June 4, 1975, gage height, 7.77 ft (2.368 m); minimum discharge recorded, 21 ft³/s (0.60 m³/s) July 9, 1973, gage height, 1.91 ft (0.582 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,780 ft³/s (164 m³/s) Apr. 30, gage height, 5.90 ft (1.798 m); maximum recorded gage height, 7.58 ft (2.310 m) Jan. 27, (backwater from ice, but may have been higher during periods of no gage-height record); minimum, 165 ft³/s (4.67 m³/s) July 27, gage height, 2.33 ft (0.710 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 29 to Dec. 4, Dec. 31 to Jan. 1, Jan. 9, 10, Jan. 26 to Feb. 15)

2.0	56	4.0	1,800
2.5	259	5.0	3,710
3.0	603	6.0	6,040
3.5	1,130		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1250	1100	1350	1300	1240	676	5270	4780	1540	1220	1340
2	760	1250	1200	1380	1300	1270	707	5150	5000	2130	1310	1330
3	550	1300	1380	1390	1300	1180	713	4640	4870	2960	1380	1350
4	505	1350	1400	1240	1300	1260	715	4270	4550	3100	1410	1380
5	511	1420	1400	1380	1200	1250	783	4170	4280	2720	1420	1360
6	533	1400	1360	1320	1300	1130	878	4060	4040	2520	1280	1350
7	505	1390	1370	1090	1300	1110	831	4090	3940	2310	1230	1350
8	507	1360	1360	1250	1140	988	849	3950	3730	2260	1110	1350
9	507	1350	1370	1250	1200	1080	753	4000	3490	1750	1110	1260
10	556	1340	1360	1150	1300	968	793	4040	3380	1260	1150	1290
11	634	1360	1200	1260	1200	1100	864	3720	3290	1030	1070	1450
12	638	1320	1190	1230	1300	1080	734	3200	3270	1040	1020	1560
13	654	1260	1290	1410	1300	969	945	3050	3250	1180	1100	1650
14	652	1230	1330	1650	1200	994	985	2520	3060	1200	1040	1800
15	697	1240	1260	1480	1300	1080	1100	2510	2990	1240	1140	1400
16	858	1210	1400	1330	1200	1010	1130	2770	2810	1120	1510	1580
17	877	1240	1330	1340	1350	842	1160	3030	2450	1080	1540	1480
18	845	1280	1310	1340	1440	1040	1260	2940	2360	897	1540	1450
19	1160	1270	1290	1200	1510	1150	1390	2900	2550	878	2040	1430
20	1430	1170	1340	1070	1600	789	1630	2900	2600	1070	1550	1540
21	1280	1070	1360	1400	1490	778	2120	3010	2530	1080	1450	1850
22	1170	1070	1360	1140	1400	792	2090	3200	2520	1040	1390	1710
23	1190	1200	1270	1330	1340	814	2780	3500	2450	1040	1430	1580
24	1280	1230	1340	1210	1320	837	3410	4050	2220	1040	1190	1600
25	1290	1230	1380	1280	1170	809	4210	4380	1800	1080	1110	1400
26	1240	1250	1320	1150	1220	759	4720	4460	1820	1230	1130	1350
27	1230	1170	1210	1050	1260	776	4640	4200	1770	1150	1160	1510
28	1250	1030	1160	1050	1290	738	4720	4190	1740	1260	1260	1440
29	1300	1000	1180	1300	1240	706	4940	4270	1430	1250	1240	1250
30	1300	1000	1240	1300	---	749	5430	4620	1350	1250	1260	993
31	1270	---	1300	1200	---	800	---	4550	---	1200	1400	---
TOTAL	28319	37240	40360	39520	37810	30088	57946	117610	90120	45905	40180	43193
MEAN	914	1241	1302	1275	1304	971	1932	3794	3004	1481	1296	1439
MAX	1430	1420	1400	1650	1600	1270	5430	5270	5000	3100	2040	1850
MIN	505	1000	1100	1050	1170	706	676	2510	1350	878	1020	993
AC-FT	56170	73870	80050	78390	75000	59680	114900	233300	178800	91050	79700	85650

CAL YR 1979 TOTAL 630667 MEAN 1728 MAX 5290 MIN 505 AC-FT 1251000
WTR YR 1980 TOTAL 608281 MEAN 1662 MAX 5430 MIN 505 AC-FT 1207000

13050500 HENRYS FORK AT ST. ANTHONY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-74, 1977 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1975-76, 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
JAN 17...	1525	1230	153	8.2	1.5	2.0	36	0	10	2.6	17	48
FEB 08...	1730	1110	158	--	.0	1.5	--	--	--	--	--	--
APR 14...	1335	976	150	--	21.0	12.0	--	--	--	--	--	--
JUN 02...	1308	5280	106	8.5	18.0	11.0	34	0	9.0	2.8	7.9	32

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
JAN 17...	1.2	2.9	61	1.3	7.4	2.4	35	116	.16	385	.26	.030
FEB 08...	--	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 02...	.6	2.2	39	2.4	2.5	1.2	24	76	.10	1080	.05	.040

13052200 TETON RIVER ABOVE SOUTH LEIGH CREEK, NEAR DRIGGS, ID

LOCATION.--Lat 43°46'54", long 111°12'30", in NW¼NE¼ sec.12, T.5 N., R.44 E., Teton County, Hydrologic Unit 17040204, on right bank 75 ft (23 m) upstream from county road bridge, 3.5 mi (5.6 km) southwest of Tetonia, 6.5 mi (10.5 km) northwest of Driggs, and at mile 56.3 (90.6 km).

DRAINAGE AREA.--335 mi^2 (868 km^2), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 5,952.9 ft (1,814.44 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for winter periods, which are poor. Diversions above station for irrigation of about 42,000 acres (17,000 hm^2) of which about 1,000 acres (400 hm^2) are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--19 years, 402 ft^3/s (11.38 m^3/s), 291,200 acre-ft/yr (359 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,270 ft^3/s (64.3 m^3/s) June 18, 19, 1974, gage height, 4.28 ft (1.305 m); maximum gage height, 6.37 ft (1.942 m) Feb. 1, 1963; minimum, 54 ft^3/s (1.53 m^3/s) Nov. 23, 1977, gage height, 0.60 ft (0.183 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,230 ft^3/s (34.8 m^3/s) May 24, gage height, 3.00 ft (0.914 m); minimum daily, 140 ft^3/s (3.96 m^3/s) Dec. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	260	205	199	260	298	230	341	640	699	419	307
2	253	256	230	196	263	275	232	341	659	759	398	298
3	250	265	260	192	261	267	234	341	637	910	385	288
4	250	278	275	189	258	276	248	360	604	903	376	283
5	249	305	274	189	251	260	298	365	621	827	379	279
6	253	309	260	156	246	243	350	380	681	800	363	278
7	254	291	260	160	240	232	269	400	622	745	353	287
8	252	283	240	170	225	226	231	455	569	762	341	297
9	247	278	217	180	215	218	248	527	559	974	353	291
10	250	269	225	170	215	221	277	516	618	880	336	296
11	249	274	170	175	220	262	243	455	809	766	329	313
12	248	278	179	350	220	281	249	405	967	698	311	335
13	251	283	228	520	220	238	249	370	1010	653	305	352
14	250	283	228	580	221	235	278	370	982	631	302	339
15	254	278	199	490	223	257	318	351	942	652	350	306
16	274	269	196	430	229	227	299	370	862	603	430	293
17	264	269	214	350	229	214	294	440	716	574	405	287
18	258	278	228	300	354	215	303	440	774	544	363	282
19	323	278	221	250	479	211	307	415	893	533	366	297
20	325	275	182	195	438	209	309	410	990	513	417	290
21	284	250	182	195	330	220	305	445	1020	510	370	313
22	274	210	173	200	287	225	286	594	975	499	339	305
23	266	230	170	195	263	236	301	819	968	487	330	292
24	262	235	192	200	242	217	319	1170	908	470	318	297
25	260	240	173	200	233	221	313	1190	829	469	311	289
26	256	235	167	180	237	216	309	1160	820	449	316	282
27	256	230	142	165	280	218	309	832	816	444	320	277
28	269	215	140	160	328	211	309	634	714	432	314	274
29	291	200	145	175	337	217	309	599	662	418	307	266
30	274	185	170	225	---	232	328	653	664	418	301	269
31	260	---	190	255	---	215	---	628	---	427	301	---
TOTAL	8160	7789	6335	7591	7804	7293	8554	16776	23531	19449	10808	8862
MEAN	263	260	204	245	269	235	285	541	784	627	349	295
MAX	325	304	275	580	479	298	350	1190	1020	974	430	352
MIN	247	185	140	156	215	209	230	341	559	418	301	266
AC-FT	16190	15450	12570	15060	15480	14470	16970	33280	46670	38580	21440	17580

CAL YR 1979 TOTAL 134887 MEAN 370 MAX 1110 MIN 140 AC-FT 267500
WTR YR 1980 TOTAL 132952 MEAN 363 MAX 1190 MIN 140 AC-FT 263700

13055000 TETON RIVER NEAR ST. ANTHONY, ID

LOCATION.--Lat 43°55'38", long 111°36'55", in SW¼SW¼ sec.15, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040204, on right bank 0.5 mi (0.8 km) upstream from railroad bridge, 4 mi (6.4 km) southeast of St. Anthony, and at mile 22 (35.4 km).

DRAINAGE AREA.--890 mi² (2,305 km²), approximately.

PERIOD OF RECORD.--January 1890 to September 1893, April 1903 to June 1909, April 1920 (irrigation seasons only 1920-21, 1923-33) to May 1976 (destroyed by flood of June 5, 1976), October 1977 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "near Wilford" or "at Chases Ranch" 1890-93.

REVISED RECORDS.--WSP 1217: Drainage area. WSP 1347: 1903-6, 1908-9.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Altitude of gage is 4,970 ft (1,515 m), from topographic map. Apr. 5, 1890, to Sept. 30, 1893, nonrecording gage at site 1 mi (1.6 km) downstream at different datum. Apr. 23, 1903, to June 30, 1909, nonrecording gage at site 0.8 mi (1.3 km) upstream at different datum. Apr. 19, 1920, to May 1, 1921, nonrecording gage and May 2, 1921, to Nov. 5, 1933, water-stage recorder, at site 400 ft (12.0 m) downstream at different datum. Nov. 6, 1933, to June 5, 1976, water-stage recorder, at approximately same site at different datum.

REMARKS.--Records good except those for January, which are fair. Diversions above station for irrigation of about 58,000 acres (23,000 hm²) of which about 4,400 acres (1,800 hm²) are by withdrawals from ground water (1966 determination). Water is diverted at times (since 1939) during irrigation season from Henrys Fork through Cross Cut Canal to Teton River 0.8 mi (1.3 km) upstream from station, 28,500 acre-ft (35.1 hm³) diverted into river during 1980 irrigation season.

AVERAGE DISCHARGE.--45 years (1933-75, 1978-80), 809 ft³/s (22.91 m³/s), 586,100 acre-ft/yr (723 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 1.7 million ft³/s (48,100 m³/s), estimated from the average of slope-area measurements of peak flow at Teton, 5.3 mi (8.5 km) downstream and near Newdale, 3.4 mi (5.5 km) upstream, June 5, 1976 (Teton Dam failure); maximum stage, 42.2 ft (12.86 m); maximum discharge excluding 1976, 11,000 ft³/s (312 m³/s) Feb. 12, 1962, gage height, 9.36 ft (2.853 m), on basis of contracted-opening measurement of peak flow, site and datum then in use; minimum, 183 ft³/s (5.18 m³/s) Oct. 4, 1975, due to filling of Teton Reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,010 ft³/s (85.2 m³/s) May 24, gage height, 5.57 ft (1.698 m); minimum daily, 290 ft³/s (8.21 m³/s) Dec. 29.

REVISIONS.--Revised figures of discharge for water year 1979 are given herein. They supersede figures published in WRD ID-79-1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	664	568	490	320	420	390	481	807	1790	1700	661	777
2	658	560	480	400	430	395	453	855	1520	1560	709	780
3	658	555	455	425	430	380	432	926	1390	1410	751	763
4	658	550	475	420	420	355	425	956	1480	1240	755	745
5	646	540	517	415	420	362	418	1010	1800	1140	769	735
6	628	536	485	380	420	385	442	1190	2180	1110	785	721
7	616	534	470	350	420	385	595	1280	2430	1070	759	710
8	616	515	455	365	410	404	721	1080	2270	1030	767	694
9	622	542	470	405	310	438	715	960	1780	982	824	666
10	622	550	485	435	375	410	704	875	1440	914	819	657
11	616	523	450	450	420	396	629	778	1360	922	800	635
12	616	534	495	440	410	393	553	711	1490	968	797	545
13	622	545	480	430	415	389	513	681	1770	1070	881	600
14	610	517	445	425	450	382	513	706	2120	1030	910	595
15	610	485	445	420	420	378	553	878	2290	996	886	588
16	604	445	455	420	390	381	731	1290	2220	987	833	588
17	604	501	395	415	400	396	953	1730	2020	939	809	583
18	598	539	455	415	375	385	1010	2080	1880	910	804	563
19	598	523	445	410	390	379	878	2150	1890	934	808	561
20	592	523	425	410	390	386	719	2160	1780	918	847	585
21	568	539	415	410	385	390	620	2260	1510	900	883	569
22	580	550	430	405	385	392	634	2500	1430	926	860	569
23	580	550	395	390	385	395	679	2690	1400	1080	866	565
24	586	534	350	400	385	396	665	2870	1390	1190	844	553
25	586	512	415	400	380	407	597	2990	1490	1050	827	562
26	574	490	405	405	380	434	570	2990	1650	884	825	523
27	562	490	400	410	385	451	564	3070	1780	785	824	532
28	568	490	430	405	390	493	594	3290	1850	743	821	515
29	574	480	430	390	---	532	682	3230	1830	728	793	504
30	574	495	425	370	---	521	747	2710	1730	711	765	490
31	568	---	400	400	---	501	---	2200	---	670	767	---
TOTAL	18778	15715	13767	12535	11190	12681	18790	53903	52960	31497	25049	18473
MEAN	606	524	444	404	400	409	626	1739	1765	1016	808	616
MAX	664	568	517	450	450	532	1010	3290	2430	1700	910	780
MIN	562	445	350	320	310	355	418	681	1360	670	661	490
AC-FT	37250	31170	27310	24860	22200	25150	37270	106900	105000	62470	49680	36640

CAL YR 1978 TOTAL 342908 MEAN 939 MAX 3460 MIN 240 AC-FT 680200
WTR YR 1979 TOTAL 285338 MEAN 782 MAX 3290 MIN 310 AC-FT 566000

13055000 TETON RIVER NEAR ST. ANTHONY, ID (Continued)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	488	431	355	384	355	590	395	1440	2000	1180	918	515
2	486	432	385	385	369	510	407	1520	1990	1300	880	515
3	474	436	409	375	363	490	403	1500	2030	1760	858	510
4	474	453	428	385	362	510	411	1480	1860	1740	850	499
5	476	471	438	390	354	498	443	1610	1690	1540	792	494
6	472	476	419	405	334	456	515	1740	1700	1450	785	488
7	478	469	423	292	348	429	530	1860	1620	1350	785	494
8	482	450	430	365	340	410	451	1950	1480	1250	785	488
9	471	439	429	370	309	400	420	2110	1460	1330	778	494
10	467	440	436	375	309	404	444	2180	1590	1490	799	505
11	464	432	419	315	317	445	453	1950	1880	1270	835	525
12	465	426	328	300	332	493	425	1650	2170	1130	903	608
13	456	406	339	455	337	455	433	1400	2250	1060	792	644
14	450	407	398	652	341	422	444	1240	2170	1070	813	620
15	454	410	399	735	344	437	491	1150	2090	1130	858	584
16	466	409	405	671	350	434	530	1170	1960	1180	970	540
17	479	421	396	591	361	393	509	1350	1650	1140	1110	520
18	468	436	399	538	569	386	524	1360	1560	1100	970	510
19	476	437	387	469	977	391	549	1350	1780	1050	925	505
20	557	418	394	411	1150	385	587	1440	1930	1040	880	535
21	542	392	396	362	859	383	646	1640	2010	1020	903	540
22	498	348	407	410	610	393	705	1930	1930	994	771	584
23	479	348	405	378	514	398	874	2370	1860	960	638	566
24	465	408	396	370	466	403	1070	2910	1720	945	614	550
25	460	425	410	380	433	398	1070	2930	1500	984	590	550
26	454	416	415	360	413	391	1140	2620	1440	869	566	540
27	448	408	375	330	437	381	1160	2240	1450	864	572	535
28	453	427	293	320	521	387	1100	1790	1370	844	572	525
29	468	360	290	320	651	378	1140	1690	1240	774	540	525
30	471	330	300	330	---	402	1280	1960	1190	765	515	515
31	444	---	370	340	---	411	---	2070	---	785	510	---
TOTAL	14685	12561	12073	12763	13425	13263	19549	55600	52570	35364	24077	16023
MEAN	474	419	389	412	463	428	652	1794	1752	1141	777	534
MAX	557	476	438	735	1150	590	1280	2930	2250	1760	1110	644
MIN	444	330	290	292	309	378	395	1150	1190	765	510	488
AC-FT	29130	24910	23950	25320	26630	26310	38780	110300	104300	70140	47760	31780

CAL YR 1979 TOTAL 276397 MEAN 757 MAX 3290 MIN 290 AC-FT 548200
WTR YR 1980 TOTAL 281953 MEAN 770 MAX 2930 MIN 290 AC-FT 559300

13055000 TETON RIVER NEAR ST. ANTHONY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1977 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1976 and 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
DEC 31...	1345	373	280	--	2.0	2.0	--	--	--	--	--	--
JAN 17...	1620	480	252	7.9	1.0	3.0	140	0	38	11	3.5	7
FEB 11...	1240	294	313	--	1.5	1.0	--	--	--	--	--	--
APR 10...	1300	441	333	--	13.0	8.5	--	--	--	--	--	--
MAY 28...	1220	1790	240	8.3	19.0	9.0	120	5	34	9.7	2.3	4

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
DEC 31...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 17...	.1	2.7	140	8.2	3.2	.3	13	167	.23	216	.63	.038
FEB 11...	--	--	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 28...	.1	1.3	120	5.6	1.2	.2	11	138	.19	667	.17	.120

13055198 NORTH FORK TETON RIVER AT TETON, ID

LOCATION.--Lat 43°53'53", long 111°40'37", in NW¼NW¼NW¼ sec.31, T.7 N., R.41 E., Fremont County, Hydrologic Unit 17040204, on left bank 60 ft (18 m) upstream from county road bridge, 0.4 mi (0.7 km) downstream from point of diversion, 0.5 mi (0.80 km) north of Teton, and at mile 16.2 (26.1 km).

DRAINAGE AREA.--

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,390 ft (1,338 m), from topographic map.

REMARKS.--Records good except those for winter period, which are poor. Diversions from tributaries above station for irrigation in Wyoming and Idaho.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,470 ft³/s (41.6 m³/s) June 10, 1978, gage height, 12.17 ft (3.709 m); minimum daily, 30 ft³/s (0.850 m³/s) Jan. 21, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,140 ft³/s (32.3 m³/s) May 24, gage height, 10.85 ft (3.307 m); minimum daily, 30 ft³/s (0.850 m³/s) Jan. 21.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used May 8 to July 4;
stage-discharge relation affected by ice Nov. 20 to Dec. 3,
Dec. 11-19, 23, 24, Dec. 26 to Jan. 14, Jan. 19 to Feb. 19)

6.4	19	8.6	400
6.6	40	9.2	580
7.0	80	10.0	820
7.4	133	11.5	1270
8.0	249		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	160	80	67	52	135	48	400	709	329	394	179
2	163	160	105	66	56	108	50	415	697	364	399	183
3	161	163	135	66	62	99	51	421	718	547	402	183
4	159	170	150	66	63	104	53	409	658	586	383	180
5	162	184	167	65	63	105	59	466	583	517	359	174
6	159	231	144	60	62	94	78	541	589	481	352	167
7	195	261	132	55	61	85	86	586	562	436	349	163
8	204	254	142	59	59	79	67	631	505	359	357	176
9	148	246	101	62	57	77	57	694	490	367	368	178
10	147	247	89	61	56	74	65	721	529	433	380	179
11	152	243	72	59	60	85	68	637	637	350	390	188
12	163	243	80	54	61	99	61	529	751	311	423	233
13	163	234	90	100	62	91	63	439	799	292	356	266
14	164	199	100	220	64	56	65	373	766	290	369	253
15	164	142	92	152	62	61	77	345	730	311	400	235
16	170	140	90	101	63	62	90	348	679	329	466	210
17	177	140	92	80	70	49	86	431	565	319	543	197
18	173	143	95	71	150	46	87	445	499	314	488	189
19	176	120	94	60	250	50	94	442	553	311	447	184
20	211	83	75	50	321	48	104	484	613	321	407	202
21	218	73	75	30	232	46	121	549	649	321	421	207
22	196	67	71	43	147	49	140	630	610	306	327	229
23	189	62	70	48	111	49	183	811	580	299	248	226
24	178	70	72	50	97	52	247	1070	532	297	241	216
25	176	73	75	50	88	51	257	1110	451	319	228	217
26	172	72	74	49	81	48	255	977	430	294	212	212
27	170	70	70	46	84	45	292	817	439	306	216	210
28	173	68	47	42	104	47	274	629	418	316	216	206
29	178	66	48	43	143	43	292	586	359	294	202	203
30	182	65	54	44	---	50	337	685	332	294	184	199
31	168	---	65	47	---	55	---	742	---	329	171	---
TOTAL	5372	4449	2846	2066	2841	2142	3807	18363	17432	10942	10698	6044
MEAN	173	148	91.8	66.6	98.0	69.1	127	592	581	353	345	201
MAX	218	261	167	220	321	135	337	1110	799	586	543	266
MIN	147	62	47	30	52	43	48	345	332	290	171	163
AC-FT	10660	8820	5650	4100	5640	4250	7550	36420	34580	21700	21220	11990

CAL YR 1979 TOTAL 100297 MEAN 275 MAX 1350 MIN 47 AC-FT 198900
WTR YR 1980 TOTAL 87002 MEAN 238 MAX 1110 MIN 30 AC-FT 172600

13055319 MOODY CREEK NEAR REXBURG, ID

LOCATION.--Lat 43°46'48", long 111°37'21", in NW¼SW¼NW¼ sec. 10, T.5 N., R.41 E., Madison County, Hydrologic Unit 17040204, on right bank 11 ft (3.35 m) upstream of road bridge, 0.9 mi (1.45 km) upstream from Dry Canyon Creek, and approximately 8.5 mi (13.7 km) southeast of Rexburg.

DRAINAGE AREA.--

PERIOD OF RECORD.-- October 1979 to September 1980.

GAGE.--Nonrecording gage, staff and crest-stage gage. Altitude of gage is 5,240 ft (1,597 m), from topographic map.

REMARKS.--Records fair except those for winter period, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 171 ft³/s (4.84 m³/s) June 2, 1980, gage height 2.39 ft (0.728 m); maximum gage height observed, 3.98 ft (1.213 m) Feb. 18, 1980 (backwater from ice); minimum daily discharge 2.0 ft³/s (0.057 m³/s) Nov. 28, 1979, and Jan. 28, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 171 ft³/s (4.84 m³/s) June 2, gage height 2.39 ft (0.728 m); maximum gage height observed, 3.98 ft (1.213 m) Feb. 18 (backwater from ice); minimum daily discharge, 2.0 ft³/s (0.057 m³/s) Nov. 28, Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	4.0	2.5	5.0	3.5	14	8.9	62	122	9.6	3.0	2.6
2	3.2	4.2	3.0	4.5	3.8	12	8.6	53	160	9.6	3.0	2.6
3	3.2	4.2	7.0	4.8	4.0	11	9.2	51	125	9.9	3.0	2.8
4	3.2	4.7	6.0	5.0	4.5	11	11	96	124	9.6	2.8	2.8
5	3.2	5.2	5.8	5.8	3.5	12	12	81	95	9.2	2.8	3.0
6	3.2	4.7	5.5	3.5	4.0	11	9.2	86	80	8.2	2.6	3.2
7	3.2	4.7	5.0	4.3	4.3	11	8.9	94	71	7.6	2.6	3.2
8	3.2	4.2	4.8	5.0	4.0	11	8.2	98	59	6.6	2.8	3.2
9	3.2	4.2	4.7	5.5	3.0	11	7.9	102	50	6.3	2.6	3.0
10	3.2	4.2	4.5	4.0	2.8	12	8.2	104	42	6.3	2.4	3.0
11	3.2	4.2	3.0	3.0	3.0	11	8.9	92	37	5.8	2.4	3.2
12	3.2	2.8	3.5	6.0	3.5	10	8.6	74	33	5.5	2.6	4.7
13	3.2	3.7	3.2	15	4.0	9.5	8.2	58	30	5.8	2.4	4.7
14	3.2	4.2	3.8	20	3.5	10	7.6	49	27	6.1	2.4	5.8
15	3.5	4.2	4.3	15	3.5	10	7.9	46	24	5.8	3.0	4.7
16	4.4	4.2	4.5	10	8.0	9.6	8.6	42	19	5.5	5.8	4.4
17	4.2	4.4	4.5	7.2	30	8.9	10	39	18	5.5	5.2	3.7
18	3.9	4.2	4.4	6.0	70	8.6	15	36	21	5.8	5.5	3.2
19	4.2	3.7	4.6	5.0	50	8.6	18	35	19	5.8	5.8	3.0
20	4.2	3.2	4.8	4.0	22	8.2	24	32	17	5.5	5.2	3.0
21	4.2	3.0	4.7	4.7	10	8.2	26	33	17	4.9	4.7	3.2
22	4.2	2.5	4.0	4.4	9.4	7.9	30	35	16	4.2	4.4	3.0
23	4.2	3.0	4.0	4.8	8.5	8.6	43	36	14	3.7	4.4	3.2
24	4.2	3.4	4.3	5.0	8.0	8.2	46	37	14	3.2	3.7	3.5
25	4.2	3.7	4.5	3.5	9.5	7.9	44	40	13	3.2	3.0	3.5
26	3.9	3.0	4.0	3.0	13	8.2	47	42	12	3.2	2.4	3.2
27	3.9	2.5	3.0	2.3	25	8.6	52	45	12	4.7	2.2	3.2
28	4.2	2.0	2.1	2.0	16	17	53	43	11	3.5	2.4	3.0
29	4.7	2.1	2.5	2.7	15	18	62	53	11	3.0	2.2	3.0
30	4.2	2.2	3.0	2.7	---	9.2	66	72	9.9	3.5	2.4	3.0
31	4.0	---	4.5	3.0	---	9.2	---	95	---	3.2	2.4	---
TOTAL	115.1	110.5	130.0	176.7	349.3	321.4	677.9	1861	1302.9	180.3	102.1	101.6
MEAN	3.71	3.68	4.19	5.70	12.0	10.4	22.6	60.0	43.4	5.82	3.29	3.39
MAX	4.7	5.2	7.0	20	70	18	66	104	160	9.9	5.8	5.8
MIN	3.2	2.0	2.1	2.0	2.8	7.9	7.6	32	9.9	3.0	2.2	2.6
AC-FT	228	219	258	350	693	637	1340	3690	2580	358	203	202

WTR YR 1980 TOTAL 5428.8 MEAN 14.8 MAX 160 MIN 2.0 AC-FT 10770

13056500 HENRYS FORK NEAR REXBURG, ID

LOCATION.--Lat 43°49'34", long 111°54'15", in NW¼NE¼ sec.30, T.6 N., R.39 E., Madison County, Hydrologic Unit 17040203, on right bank 200 ft (61 m) downstream from highway bridge, 6 mi (9.7 km) west of Rexburg, and at mile 9.2 (14.8 km).

DRAINAGE AREA.--2,920 mi² (7,560 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1909 to current year. Monthly discharge only for some periods, published in WSP 1317. Prior to 1911, published as North Fork of Snake River near Rexburg.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,806.35 ft (1,464.98 m) National Geodetic Vertical Datum of 1929. Apr. 13, 1909, to Sept. 28, 1912, nonrecording gage at datum 0.67 ft (0.204 m) higher. Sept. 29, 1912, to Apr. 4, 1913, nonrecording gage at present datum.

REMARKS.--Records good except those for winter periods, which are fair. Flow regulated by operation of powerplant near Ashton, and by Henrys Lake (see sta 13039000), Island Park Reservoir (see sta 13042000), and Grassy Lake (see sta 13046500). Diversions above station for irrigation of about 5,000 acres (2,000 hm²) below and about 204,000 acres (82,600 hm²) above station of which about 21,000 acres (8,500 hm²) are by withdrawals from ground water (1966 determination). Considerable water leaks above station into the Snake Plain aquifer. Station is downstream from all tributaries except inflow from ground water and irrigation waste.

AVERAGE DISCHARGE.--71 years, 2,035 ft³/s (57.63 m³/s), 1,474,000 acre-ft/yr (1,820 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 79,000 ft³/s (2,240 m³/s) June 5, 1976; maximum gage height, 22.36 ft (6.815 m) June 5, 1976, result of Teton Dam failure; maximum discharge excluding 1976, 11,200 ft³/s (317 m³/s) May 29, 1970, June 5, 1975; maximum gage height, 10.30 ft (3.139 m) May 29, 1970; minimum, 183 ft³/s (5.18 m³/s) Mar. 24-28, 1934, gage height, 1.45 ft (0.442 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,770 ft³/s (220 m³/s) June 4, gage height, 8.92 ft (2.719 m); minimum, 736 ft³/s (20.8 m³/s) Apr. 13, gage height, 2.89 ft (0.881 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1400	1530	1200	1550	1700	2030	857	5260	6920	1640	1110	1460
2	1340	1530	1500	1600	1800	1810	786	5390	7330	1910	1240	1400
3	950	1550	1790	1600	1800	1730	786	5240	7610	2640	1350	1370
4	879	1630	1910	1600	1800	1790	786	4740	7550	3630	1450	1400
5	862	1730	1930	1500	1700	1650	786	4380	6780	3670	1410	1370
6	847	1710	1850	1600	1750	1680	920	4280	6000	3260	1300	1320
7	834	1680	1780	1500	1750	1450	992	4230	5490	2930	1240	1270
8	820	1690	1790	1400	1650	1430	968	4460	5250	2610	1200	1340
9	825	1650	1790	1500	1600	1280	938	4590	4860	2320	1090	1390
10	832	1660	1790	1550	1600	1290	890	4820	4440	1870	1170	1290
11	908	1670	1750	1450	1650	1290	968	5030	4200	1410	1210	1400
12	948	1650	1610	1550	1700	1310	813	4710	4120	1140	1180	1650
13	934	1590	1640	1700	1700	1280	863	4150	4110	1050	1160	1680
14	956	1570	1670	2250	1720	1250	885	3580	3960	1030	1140	1940
15	986	1600	1650	2530	1750	1180	983	3180	3740	1100	1250	1830
16	1120	1620	1820	2320	1850	1220	1100	3180	3760	1100	1640	1780
17	1220	1610	1940	1980	2050	1140	1100	3490	3430	1000	1940	1760
18	1170	1680	1980	1840	2440	1110	1100	3690	3030	961	2030	1730
19	1250	1680	1880	1660	2930	1340	1240	3630	3040	861	2310	1730
20	1620	1530	1850	1630	3950	1100	1390	3580	3090	937	2470	1620
21	1650	1510	1880	1660	3690	965	1610	3630	3120	1080	2070	1820
22	1520	1460	1810	1760	2510	943	2010	3790	3060	993	2000	2140
23	1460	1530	1820	1680	2190	914	1990	4090	3000	937	1870	1940
24	1500	1540	1830	1790	2140	934	2740	4730	2890	911	1630	1770
25	1520	1600	1700	1800	2120	933	3230	5840	2540	974	1450	1640
26	1520	1560	1550	1520	2100	893	3830	7390	2130	1090	1380	1640
27	1500	1580	1450	1420	2030	891	4360	7380	1940	1130	1340	1630
28	1490	1360	1400	1350	1950	905	4540	6430	2110	1220	1350	1640
29	1560	1110	1300	1350	2050	843	4600	5830	1810	1100	1350	1520
30	1570	1100	1300	1400	---	835	4810	5970	1680	1060	1310	1290
31	1540	---	1450	1550	---	890	---	6570	---	1060	1370	---
TOTAL	37531	46910	52610	51590	59670	38306	52871	147260	122990	48624	46010	47760
MEAN	1211	1564	1697	1664	2058	1236	1762	4750	4100	1569	1484	1592
MAX	1650	1730	1980	2530	3950	2030	4810	7390	7610	3670	2470	2140
MIN	820	1100	1200	1350	1600	835	786	3180	1680	861	1090	1270
AC-FT	74440	93050	104400	102300	118400	75980	104900	292100	244000	96450	91260	94730

CAL YR 1979 TOTAL 718526 MEAN 1969 MAX 5220 MIN 673 AC-FT 1425000
WTR YR 1980 TOTAL 752132 MEAN 2055 MAX 7610 MIN 786 AC-FT 1492000

13056500 HENRYS FORK NEAR REXBURG, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.
REMARKS.--Miscellaneous water-quality data published for water year 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
04...	1700	873	172	--	21.0	13.5	--	--	--	--	--	--
JAN												
09...	1210	1550	186	--	2.0	1.0	--	--	--	--	--	--
17...	1320	1990	179	7.8	2.0	1.5	55	0	15	4.2	15	36
FEB												
22...	1117	2560	202	--	.0	1.5	--	--	--	--	--	--
APR												
15...	1530	1020	232	--	20.5	12.0	--	--	--	--	--	--
MAY												
29...	1157	5760	148	8.9	14.0	11.5	58	0	16	4.5	7.7	22
JUN												
09...	1225	4870	134	--	35.0	14.0	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT												
04...	--	--	--	--	--	--	--	--	--	--	--	--
JAN												
09...	--	--	--	--	--	--	--	--	--	--	--	--
17...	.9	2.8	76	2.6	6.7	2.0	32	128	.17	688	.35	.050
FEB												
22...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
29...	.4	1.8	75	1.5	2.7	1.1	21	102	.14	1590	.06	.030
JUN												
09...	--	--	--	--	--	--	--	--	--	--	--	--

13057000 SNAKE RIVER NEAR MENAN, ID

LOCATION.--Lat 43°45'10", long 111°58'50", in SW¼NW¼ sec.22, T.5 N., R.38 E., Jefferson-Madison County line, Hydrologic Unit 17040201, at county bridge 2.0 mi (3.2 km) north of Menan.
DRAINAGE AREA.--Not determined.
PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
OCT 30...	1120	1600	271	8.2	8.0	5.0	11.9	93	K5	--	--
NOV 30...	1120	1820	347	7.5	-3.0	-10.0	10.8	89	K7	--	--
DEC 17...	1214	2160	299	8.4	3.0	1.0	12.6	105	52	--	--
JAN 28...	1504	2500	323	8.3	.0	.0	13.0	98	50	--	--
FEB 29...	1050	2750	297	7.4	9.0	4.0	10.0	91	--	--	--
APR 28...	0807	9500	243	7.5	10.0	10.0	9.4	103	120	--	--
MAY 31...	1540	12000	268	8.3	19.0	10.5	9.4	101	60	--	--
JUN 30...	0940	9200	301	8.1	28.0	11.5	9.4	103	75	9	.01
JUL 28...	0853	6480	300	8.2	35.5	11.0	9.3	101	170	--	--
AUG 28...	1235	2450	297	8.2	23.0	15.0	8.8	99	61	--	--
SEP 23...	1531	2440	264	8.5	20.5	13.0	9.2	103	K19	--	--

DATE	SOLIDS, DIS-SOLVED (TONS PER DAY)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT 30...	--	8	.30	.29	.32	.62	2.7	.04	.020	.06
NOV 30...	--	5	.37	.65	.83	1.2	5.3	.22	.030	.09
DEC 17...	--	14	.31	.37	.37	.68	3.0	.00	.010	.03
JAN 28...	--	4	.31	.35	.39	.70	3.1	.05	.020	.06
FEB 29...	--	332	.34	1.8	1.9	2.2	9.9	.13	.520	1.6
APR 28...	--	71	.12	.66	.66	.78	3.5	.00	.060	.18
MAY 31...	--	55	.07	.45	.45	.52	2.3	.00	.070	.21
JUN 30...	234	12	.00	1.1	1.1	1.1	4.9	.00	.010	.03
JUL 28...	--	3	.14	.96	.96	1.1	4.9	.00	.020	.06
AUG 28...	--	0	.06	.29	.29	.35	1.6	--	.030	.09
SEP 23...	--	0	.08	.19	.19	.27	1.2	.00	.040	.12

K Results based on counts outside ideal colony count range.

13057000 SNAKE RIVER NEAR MENAN, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
DEC 17...	4	1	0	0	180	32	.0	0
JUN 30...	3	5	--	9	300	3	.1	50
SEP 23...	3	0	7	37	250	7	.0	100

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)
JUN 30...	<2.2	<3.2	.5	<1.3	<1.2	.7	.8
SEP 23...	<1.5	<2.2	<.3	3.8	3.6	.5	.5

13057150 SNAKE RIVER NEAR LEWISVILLE, ID

LOCATION.--Lat 43°37'35", long 112°03'56", in SE¼SE¼ sec.35, T.4 N., R.37 E., Jefferson County, Hydrologic Unit 17040201, on left bank 15 ft (4.6 m) upstream from county line highway bridge, 5.0 mi (8.0 km) southwest of Lewisville, and at mile 815.3 (1311.8 km).

DRAINAGE AREA.--9,100 mi² (23,570 km²), approximately, excluding nontributary area on Snake River Plain.

PERIOD OF RECORD.--June 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,750 ft (1,448 m), from topographic map.

REMARKS.--Records fair. Some regulation by Jackson Lake (sta 13010500), Palisades Reservoir (sta 13032450), Island Park Reservoir (sta 13042000), Henrys Lake (see sta 13039000), and Grassy Lake (sta 13046500). Diversions above station for irrigation of about 700,000 acres (283,000 hm²). Considerable water leaks above station into the Snake Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,400 ft³/s (634 m³/s) June 3-4, 1980, gage height, 7.94 ft (2.420 m); minimum, 1,450 ft³/s (41.1 m³/s) Oct. 29, 1979, Sept. 27, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,400 ft³/s (634 m³/s) June 3, 4, gage height, 7.94 ft (2.420 m); minimum, 1,450 ft³/s (41.1 m³/s) Oct. 29, Sept. 27; minimum gage height 2.25 ft (0.6858 m), Oct. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3420	2280	2600	3320	3000	3480	7320	13100	21600	9990	7230	3920
2	3320	2270	2900	3560	3290	3030	7070	13100	21900	9390	7290	3870
3	2880	2210	3030	3530	3500	3110	6960	12900	22200	10100	7440	3950
4	2760	2200	3240	3370	3580	3060	7010	12500	22300	11100	7440	3900
5	2600	2280	3190	3290	3640	3130	7000	12300	21600	11800	7010	3970
6	2480	2380	3190	3300	3610	3060	7120	12200	18800	11800	6650	3950
7	2390	2400	3190	3200	3500	2870	7210	12000	20900	10900	6040	3810
8	2260	2330	3130	3130	3300	2550	7180	12000	21700	9660	5720	3860
9	1950	2330	3110	3100	3200	2540	5170	12500	21500	8280	5660	3720
10	2060	2320	3060	3100	3100	2440	3930	13300	20800	7230	5760	3720
11	2150	2300	3030	3200	3050	2360	3800	14500	19900	6810	5660	3850
12	2000	2290	2900	3370	3050	2480	3730	15400	18600	6550	5330	4100
13	1940	2250	2800	3340	3110	2410	3590	15700	17600	6620	5010	4230
14	1930	2250	2900	3800	3060	2380	3650	15500	16800	6550	4680	4310
15	1900	2250	3000	4280	3060	2370	3650	14500	17000	6400	4650	4170
16	1850	2230	3000	4100	3030	2380	3600	13800	17300	6710	5140	3710
17	1840	2250	3000	3750	3080	2370	3670	13500	17400	6880	5560	3460
18	1780	2230	3000	3530	3340	2180	3730	14200	15900	7100	5590	3160
19	1680	2280	3000	3260	3990	2280	3770	14300	12400	7380	5690	3000
20	1790	2280	3030	3150	4600	2500	3850	14400	11400	7440	6310	2810
21	2180	2380	3110	3100	5020	2230	4140	14300	12600	7470	6070	2610
22	2110	2430	3160	3100	4630	2150	5440	14200	14100	7070	5560	2710
23	1870	2480	3130	3100	3880	2020	6900	14800	14400	6850	4850	2810
24	1790	2630	3110	3100	3500	2190	9360	15300	13800	6870	4460	2660
25	1740	2650	3080	3000	3290	2150	10600	16400	13300	6970	4050	2270
26	1700	2750	3080	29[illegible]	3160	2070	11400	18500	11800	7140	3710	1980
27	1610	2730	3160	2[illegible]	3000	2130	12800	19900	10800	7290	3520	1860
28	1510	2550	2780	2300	3210	3130	13600	20900	10900	7260	3530	1790
29	1490	2500	2700	2000	3500	5850	13500	20800	10900	7040	3680	1730
30	1810	2300	2550	2200	---	6690	13700	20700	10600	6840	3910	1560
31	2210	---	2800	2800	---	7000	---	21000	---	7040	3930	---
TOTAL	65000	71010	92960	98880	100280	90590	204450	468500	500800	246530	167130	97450
MEAN	2097	2367	2999	3190	3458	2922	6815	15110	16690	7953	5391	3248
MAX	3420	2750	3240	4280	5020	7000	13700	21000	22300	11800	7440	4310
MIN	1490	2200	2550	2000	3000	2020	3590	12000	10600	6400	3520	1560
AC-FT	128900	140800	184400	196100	198900	179700	405500	929300	993300	489000	331500	193300

CAL YR 1979 TOTAL 2199720 MEAN 6027 MAX 14000 MIN 1490 AC-FT 4363000
WTR YR 1980 TOTAL 2203580 MEAN 6021 MAX 22300 MIN 1490 AC-FT 4371000

13060000 SNAKE RIVER NEAR SHELLEY, ID

LOCATION.--Lat 43°24'47", long 112°08'02", in SE¼SW¼ sec.17, T.1 N., R.37 E., Bingham County, Hydrologic Unit 17040201, on right bank 0.3 mi (0.5 km) southeast of Woodville, 2.5 mi (4.0 km) north of Shelley, and at mile 787.8 (1,267.6 km).

DRAINAGE AREA.--9,790 mi² (25,400 km²), approximately, excluding indeterminate nontributary area on Snake River Plain.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1915 to current year (prior to October 1931, irrigation seasons only).

REVISED RECORDS.--WSP 1317: 1916.

GAGE.--Water-stage recorder. Datum of gage is 4,599.0 ft (1,401.78 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records excellent except those for winter periods, which are good. Some regulation by Jackson Lake (see sta 13010500), Palisades Reservoir (see sta 13032450), Island Park Reservoir (see sta 13042000), Henrys Lake (see sta 13039000), and Grassy Lake (see sta 13046500). Diversions above station for irrigation of about 39,000 acres (16,000 hm²) below and about 637,000 acres (258,000 hm²) above station of which about 100,000 acres (40,500 hm²) are by withdrawals from ground water (1966 determination). Considerable water leaks above station into Snake Plain aquifer.

AVERAGE DISCHARGE.--49 years (1932-80), 5,511 ft³/s (156.1 m³/s), 4,096,000 acre-ft/yr (5,050 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,300 ft³/s (1,910 m³/s) June 6, 1976, gage height, 19.12 ft (5.828 m), result of Teton Dam failure; maximum discharge excluding 1976, 47,200 ft³/s (1,340 m³/s) June 17, 1918, gage height, 16.97 ft (5.172 m); minimum, 288 ft³/s (8.16 m³/s) Nov. 5, 1934, gage height, 2.22 ft (0.677 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 6, 1894, reached an estimated discharge of 75,000 ft³/s (2,100 m³/s) at former station at Eagle Rock (now Idaho Falls), 7 mi (11 km) upstream from present site.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,900 ft³/s (620 m³/s) June 4, gage height, 11.08 ft (3.377 m); minimum daily, 1,600 ft³/s (45.3 m³/s) Jan. 29.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 21-25, Nov. 27 to Dec. 2,
Dec. 4-6, 11-19, 21, 23-24, 26-31, Jan. 2-3, 6-8, 11, 19-29, Feb. 1, 5-6, 8-15)

4.8	1600	9.0	13300
5.0	1820	10.0	17200
6.0	3540	11.1	22000
8.0	9650		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3130	2030	2300	2850	2400	3200	6710	12500	20700	8960	5390	3100
2	3090	2100	2600	3050	2840	3090	6680	12400	21100	8400	5550	3040
3	2790	2090	2820	2900	2940	2830	6700	12300	21500	8950	5760	3080
4	2440	2130	2900	2930	2910	2740	7040	12200	21800	9900	6040	3060
5	2360	2170	2950	2880	2950	2920	6990	12000	21100	11000	5420	3060
6	2330	2290	3030	2800	3000	2750	7060	11500	18700	11000	5000	3030
7	2140	2290	2970	2700	3000	2640	7240	11400	20200	10300	4330	2950
8	2120	2320	2920	2650	3000	2400	7170	11300	21300	8910	3980	3070
9	1870	2320	2900	2530	2950	2300	5490	11700	21000	7290	3980	2960
10	1920	2180	2850	2920	2850	2040	3540	12900	20200	5970	4180	3020
11	2030	2170	2800	2600	2650	2060	3280	14000	19100	5390	4200	3160
12	1970	2170	2700	2830	2550	2100	3210	15000	17900	4980	3900	3580
13	1950	2160	2500	3030	2500	2060	3040	15100	16900	5070	3610	3940
14	1940	2090	2700	3560	2500	2040	3070	14900	15900	5060	3350	4200
15	1910	2080	2800	3990	2500	2010	3030	14100	16100	4870	3380	4130
16	2000	2050	3000	3910	2510	2000	3020	13600	16500	5100	4130	3760
17	1940	2080	2800	3520	2610	1980	3080	13000	16100	5300	4670	3460
18	2010	2060	2800	3300	2980	1910	3120	13400	15000	5620	4850	3230
19	1960	2160	2800	3150	3830	1830	3130	13500	11900	6050	5230	3050
20	2060	2170	2340	2970	4450	2080	3200	13500	10300	6180	5860	2970
21	2480	2200	2800	2800	4920	1930	3410	13500	11400	6300	5640	2820
22	2460	2300	2840	2700	4560	1820	4480	13400	12900	5730	4980	2890
23	2300	2500	2800	2700	3740	1640	6350	13800	13300	5300	4360	3070
24	2170	2600	2730	2700	3280	1710	8820	14300	13000	5240	3810	2950
25	2100	2700	2760	2650	3010	1710	10400	15600	12600	5410	3400	2620
26	2050	2600	2760	2500	2870	1690	10800	18100	11100	5610	2870	2300
27	2030	2500	2740	2300	2720	1670	11200	19400	9750	5910	2530	2150
28	1830	2400	2600	1960	2880	2040	13100	20200	9740	5740	2360	2070
29	1890	2300	2400	1600	3100	5070	13000	20200	9850	5330	2580	2050
30	1910	2100	1750	1700	---	6460	12800	20100	9590	4990	2920	1840
31	1990	---	2500	2050	---	6580	---	20300	---	5130	2990	---
TOTAL	67170	67310	84680	86730	89010	79300	190160	449200	476530	204990	131250	90610
MEAN	2167	2244	2732	2798	3069	2558	6339	14490	15880	6613	4234	3020
MAX	3130	2700	3030	3990	4920	6580	13100	20300	21800	11000	6040	4200
MIN	1830	2030	1750	1600	2400	1640	3020	11300	9590	4870	2360	1840
AC-FT	133200	133500	168000	172000	176600	157300	377200	891000	945200	406600	260300	179700

CAL YR 1979 TOTAL 1986740 MEAN 5443 MAX 13100 MIN 1750 AC-FT 3941000
WTR YR 1980 TOTAL 2016940 MEAN 5511 MAX 21800 MIN 1600 AC-FT 4001000

13060000 SNAKE RIVER NEAR SHELLEY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1972-74, 1976 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1975 and 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
DEC. 03...	1600	2910	387	7.8	--	3.0	150	8	41	11	18	19
JAN. 16...	1307	3860	279	--	6.5	.5	--	--	--	--	--	--
MAR 05...	1223	2920	324	--	2.5	4.5	--	--	--	--	--	--
MAY 05...	1540	12200	294	8.3	29.0	12.0	130	34	38	9.4	10	14
JUN 17...	1405	16300	291	--	27.0	14.0	--	--	--	--	--	--
AUG 29...	0945	2530	332	--	18.0	14.0	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
DEC 03...	.6	19	140	38	16	1.3	21	251	.34	1970	.29	.210
JAN 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 05...	.4	2.0	100	35	7.1	.6	13	176	.24	5800	.10	.120
JUN 17...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 29...	--	--	--	--	--	--	--	--	--	--	--	--

13062500 SNAKE RIVER AT BLACKFOOT, ID

LOCATION.--Lat 43°11'50", long 112°22'05", in SE¼SW¼ sec.33, T.2 S., R.35 E., Bingham County, Hydrologic Unit 17040206, on left bank immediately upstream from old Riverside Highway bridge, 0.25 mi (0.40 km) downstream from new U.S. Highway 26 bridges, 1.2 mi (1.92 km) west of Blackfoot, and at mile 764.3 (1,222.9 km).

DRAINAGE AREA.--9,950 mi^2 (25,790 km^2).

PERIOD OF RECORD.--August 1978 to current year. Records for May 1924 to September 1932 at site downstream, published as Snake River below Blackfoot Bridge, near Blackfoot, are not equivalent because diversions were not included.

GAGE.--Water-stage recorder. Altitude of gage is 4,490 ft (1,369 m), from topographic map. May 1924 to September 1932, water-stage recorder at site downstream at different datum.

REMARKS.--Records fair except those for winter period, which are poor. Flow regulated by Jackson Lake (13010500), Palisades Reservoir (13032450), Henrys Lake (see sta 13039000), Island Park Reservoir (13042000), and Grassy Lake (13046500), having a combined capacity of 2,570,000 acre-ft (3,169 hm^3). Diversions above station for irrigation of about 750,000 acres (304,000 hm^2). Considerable water leaks above the station into the Snake Plain aquifer.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,800 ft^3/s (589 m^3/s) June 4, 1980, gage height, 8.39 ft (2.557 m); minimum, 171 ft^3/s (4.84 m^3/s) Sept. 5, 6, 1978, gage height, 2.46 ft (0.750 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,800 ft^3/s (589 m^3/s) June 4, gage height, 8.39 ft (2.557 m); minimum observed, 242 ft^3/s (6.85 m^3/s) Oct. 11, but may have been lower during period of no gage-height record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1720	1990	2500	1940	2840	6290	10800	19300	5480	2280	1010
2	1340	1860	2220	2810	2260	2770	6370	10600	19800	4830	2610	1040
3	1260	1850	2500	2800	2440	2610	6370	10600	20200	5130	2740	950
4	902	1860	2640	2930	2540	2510	6680	10000	20600	6140	3360	975
5	642	1880	2730	2800	2600	2550	6750	9540	20100	7380	3040	819
6	670	1920	2800	2600	2600	2540	6760	8630	18300	7720	2580	866
7	588	1970	2800	2530	2600	2480	6960	8360	17800	7220	2160	681
8	360	1980	2750	2600	2550	2320	6970	8060	20300	6100	1650	797
9	320	1980	2700	2300	2500	2190	6020	8360	19900	4440	1690	786
10	244	1910	2560	2300	2400	2080	3580	9450	18900	3040	1830	901
11	309	1850	2530	2420	2300	1960	3030	10800	17300	2210	2050	1120
12	616	1850	2300	2700	2250	1940	2940	12200	15300	1770	1770	1390
13	561	1850	2100	3300	2300	1990	2890	12700	14100	1690	1520	2120
14	558	1820	2450	3650	2300	1980	2800	12600	12800	1750	1150	2530
15	612	1820	2520	3880	2350	1920	2750	11800	12800	1570	987	2630
16	747	1840	2620	4100	2400	1900	2800	11300	13300	1580	1600	2400
17	810	1840	2580	3830	2500	1920	2750	10600	12600	1690	2500	2190
18	816	1820	2590	3480	2700	1890	2780	11000	11800	1920	2900	2000
19	1010	1820	2680	3010	2900	1790	2760	11400	9530	2430	3270	1770
20	1300	1890	2750	2720	3450	1880	2760	11400	6860	2680	3910	1640
21	1880	1860	2680	2500	4300	2000	2830	11400	7470	2960	4300	1550
22	2110	2120	2660	2390	5930	1790	3300	11200	9000	2630	3580	1520
23	2020	2180	2630	2400	3710	1760	4850	12100	9530	2030	3040	1640
24	1890	2300	2600	2400	2890	1590	6760	12200	9390	1940	2430	1650
25	1860	2450	2520	2320	2580	1700	8460	13000	9080	2000	1980	1450
26	1800	2510	2520	2200	2560	1700	9450	15800	8060	2160	1200	1090
27	1780	2440	2500	2000	2490	1640	9830	17900	6400	2530	651	866
28	1690	2190	2400	1700	2470	1680	11400	19100	6210	2580	392	651
29	1570	2030	2000	1350	2680	3670	11200	19000	6280	2430	342	585
30	1620	1880	1800	1250	---	5790	11000	18700	6100	2000	661	465
31	1710	---	2150	1500	---	6140	---	18800	---	2000	901	---
TOTAL	34775	59290	77270	81270	79490	73520	170490	379400	399110	102030	65074	40082
MEAN	1122	1976	2493	2622	2741	2372	5683	12240	13300	3291	2099	1336
MAX	2110	2510	2800	4100	5930	6140	11400	19100	20600	7720	4300	2630
MIN	244	1720	1800	1250	1940	1590	2750	8060	6100	1570	342	465
AC-FT	68980	117600	153300	161200	157700	145800	338200	752500	791600	202400	129100	79500

CAL YR 1979 TOTAL 1527573 MEAN 4185 MAX 11500 MIN 180 AC-FT 3030000
WTR YR 1980 TOTAL 1561801 MEAN 4267 MAX 20600 MIN 244 AC-FT 3098000

13063000 BLACKFOOT RIVER ABOVE RESERVOIR, NEAR HENRY, ID

LOCATION.--Lat 42°49'00", long 111°30'35", in SE¼NE¼ sec.14, T.7 S., R.42 E., Caribou County, Hydrologic Unit 17040207, on right bank 70 ft (21 m) upstream from railroad bridge immediately upstream from the Monsanto Chemical Company "Haul Road", 5 mi (8 km) upstream from Blackfoot Reservoir flow line, 6 mi (10 km) south of Henry, and 11 mi (18 km) north of Soda Springs.
DRAINAGE AREA.--350 mi² (910 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1914 to September 1925 (no winter records except water year 1915), August 1967 to current year.
GAGE.--Water-stage recorder. Datum of gage is 6,259.36 ft (1,907.853 m) National Geodetic Vertical Datum of 1929 (levels by Topographic Division). Mar. 25, 1914, to Sept. 30, 1914, nonrecording gage at site 3.3 mi (5.3 km) downstream at different datum. Oct. 1, 1915, to Sept. 30, 1925, nonrecording gage at site 4 mi (6 km) downstream at different datum.
REMARKS.--Records fair except those for winter periods, which are poor. Diversions above station for irrigation of about 4,500 acres or 1,820 hm² (1966 determination).
AVERAGE DISCHARGE.--14 years (1915, 1968-80), 168 ft³/s (4.758 m³/s), 6.52 in/yr (166 mm/yr), 121,700 acre-ft/yr (150 hm³/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,150 ft³/s (60.9 m³/s) Apr. 26, 1974, gage height, 8.60 ft (2.621 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 17, 1977, gage height, 1.36 ft (0.415 m).
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 600 ft³/s (17.0 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 27	1330	*1320	37.4	6.93	2.112	May 10	2130	751	21.3	5.47	1.667
						June 4	1100	912	25.8	5.91	1.801

Minimum daily discharge, 31 ft³/s (0.88 m³/s) Jan. 28, minimum gage height, 1.46 ft (0.445 m) Nov. 13, Dec. 12.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 14 to Apr. 15)

1.3	20	4.0	360
1.8	45	5.0	606
2.0	60	6.0	947
3.0	173	7.0	1360

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	53	46	45	40	55	63	1070	489	218	113	100
2	48	51	49	46	42	54	64	951	519	226	109	110
3	48	59	51	46	44	55	65	813	592	232	100	105
4	46	57	46	46	45	56	66	640	864	240	99	102
5	48	60	44	45	44	55	69	587	733	220	95	100
6	48	59	43	41	42	54	77	531	722	199	95	99
7	49	57	43	43	41	54	73	495	768	188	94	99
8	47	56	44	45	41	55	72	605	676	195	94	99
9	47	54	45	46	40	56	73	628	552	185	95	98
10	48	57	41	43	37	57	76	699	493	176	92	98
11	48	57	32	40	38	56	74	723	454	160	90	98
12	49	54	34	44	39	55	75	654	421	155	90	112
13	49	55	37	50	40	56	82	708	396	159	87	117
14	49	55	40	56	41	58	88	640	382	152	83	110
15	50	54	44	57	41	57	100	522	378	160	105	100
16	56	53	47	56	46	56	97	509	383	158	140	93
17	58	53	49	51	52	58	99	642	371	149	143	90
18	53	53	49	45	65	60	120	676	344	146	121	89
19	63	52	48	43	59	60	161	564	326	137	113	90
20	94	51	47	41	55	61	214	477	315	134	123	91
21	71	50	45	41	53	61	309	431	296	132	112	90
22	61	49	44	42	50	62	417	408	281	129	105	90
23	56	48	44	42	49	62	568	403	268	120	101	90
24	56	49	45	41	49	61	788	457	260	108	97	90
25	55	49	45	40	50	60	932	549	250	113	95	90
26	55	48	44	38	53	61	1070	575	238	112	100	89
27	56	46	42	35	56	62	1190	555	219	111	103	89
28	55	44	38	31	57	62	1190	478	215	110	100	88
29	58	43	33	33	57	63	1100	463	218	108	99	88
30	56	44	37	36	---	63	1130	547	219	112	99	88
31	53	---	42	39	---	63	---	514	---	115	99	---
TOTAL	1682	1570	1338	1347	1366	1808	10502	18514	12642	4859	3191	2892
MEAN	54.3	52.3	43.2	43.5	47.1	58.3	350	597	421	157	103	96.4
MAX	94	60	51	57	65	63	1190	1070	864	240	143	117
MIN	47	43	32	31	37	54	63	403	215	108	83	88
CFSM	.16	.15	.12	.12	.14	.17	1.00	1.71	1.20	.45	.29	.28
IN.	.18	.17	.14	.14	.15	.19	1.12	1.97	1.34	.52	.34	.31
AC-FT	3340	3110	2650	2670	2710	3590	20830	36720	25080	9640	6330	5740

CAL YR 1979 TOTAL 39164 MEAN 107 MAX 843 MIN 25 CFSM .31 IN 4.16 AC-FT 77680
WTR YR 1980 TOTAL 61711 MEAN 169 MAX 1190 MIN 31 CFSM .48 IN 6.56 AC-FT 122400

13063000 BLACKFOOT RIVER ABOVE RESERVOIR, NEAR HENRY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968, 1970 to current year.
REMARKS.--Miscellaneous chemical data published for water year 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
23...	1325	58	366	8.0	16.5	5.5	180	3	52	13	4.6	5
FEB												
06...	1425	42	367	--	9.0	.5	--	--	--	--	--	--
MAR												
25...	1645	68	510	--	12.0	4.0	--	--	--	--	--	--
MAY												
06...	1058	546	261	8.2	13.5	11.5	150	5	45	7.9	3.8	5
14...	1800	630	323	8.5	19.5	12.0	150	4	47	8.9	3.7	5
JUL												
16...	1030	163	285	--	27.5	6.5	--	--	--	--	--	--
SEP												
11...	0920	95	601	--	17.0	12.0	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT												
23...	.1	1.3	180	17	3.8	.1	10	210	.29	32.9	.03	.020
FEB												
06...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
06...	.1	1.3	140	10	2.2	.1	12	167	.23	246	.04	.120
14...	.1	1.2	150	7.7	1.2	.1	11	171	.23	291	.09	.270
JUL												
16...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
11...	--	--	--	--	--	--	--	--	--	--	--	--

13065000 BLACKFOOT RESERVOIR NEAR HENRY, ID

LOCATION.--Lat 43°00'20", long 111°43'00", in sec.12, T.5 S., R.40 E., Caribou County, Hydrologic Unit 17040207, Bureau of Land Management lands, near spillway at right end of Blackfoot Dam on Blackfoot River, 12 mi (19 km) northwest of Henry, and at mile 69.0 (111.0 km).

DRAINAGE AREA.--581 mi² (1,500 km²).

PERIOD OF RECORD.--January 1912 to September 1925, January 1929 to current year (no winter records 1949-59). Monthend contents only for January 1929 to September 1960, published in WSP 1317, 1737. Prior to October 1950 and October 1960 to September 1961, published as Blackfoot-Marsh Reservoir near Henry.

GAGE.--Nonrecording gage. Datum of gage is 6,100 ft (1,859 m) National Geodetic Vertical Datum of 1929 (levels by Indian Field Service).

REMARKS.--Water diverted from reservoir for irrigation of about 50,000 acres (20,000 hm²) near Pocatello and on Fort Hall Indian Reservation. Capacity is 313,000 acre-ft (386 hm³) between elevations 6,086 ft (1,855 m) bottom of outlet tunnel and 6,118.5 ft (1,864.92 m), crest of spillway, with provision for additional storage of 100,000 acre-ft (123 hm³) to elevation 6,124 ft (1,866.6 m) by means of flashboards. Storage supplemented by water from Grays Lake beginning May 1924. Storage began in spring of 1910.

COOPERATION.--Capacity table, gage readings and daily contents furnished by Bureau of Indian Affairs.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 350,500 acre-ft (432 hm³) May 2, 9, 1974, elevation, 6,120.60 ft (1,865.559 m); minimum observed, 610 acre-ft (0.252 hm³) Sept. 12-15, 19, 21, 22, 1934; minimum elevation observed, 6,088.59 ft (1,855.802 m) Sept. 22, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 328,800 acre-ft (405 hm³) June 19, elevation, 6,119.38 ft (1,865.187 m); minimum observed, 169,600 acre-ft (209 hm³) Oct. 5, 10, 12, elevation, 6,109.64 ft (1,862.218 m).

Capacity table (elevation, in feet, and contents, in acre-feet)

6,108	146,800	6,116	270,600
6,112	205,400	6,118	304,700
6,114	237,500	6,120	339,800

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	18900	197300	---	---	253100	---	---	---	---
2	---	174500	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	319400	---	---
4	---	---	---	---	---	---	---	---	318500	---	273500	248700
5	169600	---	---	---	---	---	---	---	320100	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	222400	---	---	---	269500	---
8	---	---	---	---	---	---	---	265300	---	314700	---	247200
9	---	176300	---	---	---	---	---	---	323900	---	---	---
10	169600	---	---	---	---	211100	---	---	---	314100	---	---
11	---	---	181100	---	200400	---	---	---	---	312900	---	244000
12	169600	---	182600	---	---	---	---	---	326600	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	276400	---	---	---	---
15	---	---	---	194000	---	---	---	278100	---	---	---	---
16	---	---	---	---	---	---	---	---	326200	306700	---	---
17	170700	---	---	---	---	---	---	---	---	304900	---	---
18	---	---	---	---	---	---	---	---	---	---	258600	241900
19	170400	---	---	---	---	---	---	---	328800	---	---	---
20	---	---	---	---	---	---	---	---	328300	---	---	---
21	---	---	---	---	---	---	---	---	---	---	255800	---
22	---	---	---	---	---	---	---	301300	---	---	---	---
23	---	---	---	---	---	---	---	---	326600	---	---	---
24	---	---	---	---	---	---	---	---	---	292500	---	---
25	---	---	---	---	---	218100	---	---	---	---	---	239800
26	172200	---	---	---	---	---	---	---	324600	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	252800	---
29	---	---	---	---	207300	---	---	303200	---	---	---	---
30	---	179400	---	---	---	---	251800	---	321400	---	---	239300
31	173800	---	188700	197100	---	220100	---	308300	---	297200	251000	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
(†)	9.93	10.31	10.92	11.46	12.12	12.99	14.87	18.20	18.96	17.56	14.82	14.11
(‡)	+2100	+5600	+9300	+8400	+10200	+12800	+31700	+56500	+13100	-24200	-46200	-11700

CAL YR 1979............. ‡ -31900
WTR YR 1980............. ‡ +67600

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

13065940 WOLVERINE CREEK NEAR GOSHEN, ID

LOCATION.--Lat 43°15'02", long 112°00'57", in NW¼NW¼ sec.16, T.2 S., R.38 E., Bingham County, Hydrologic Unit 17040207, on left bank 50 ft (15.24 m) upstream from county road crossing, 1 mi (1.61 km) upstream from Blackfoot River, and 10 mi (16.09 km) southeast of Shelley.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Miscellaneous measurements only during 1973, 1975-78, October 1979 to September 1980.

GAGE.--Nonrecording gage, staff and crest-stage gage. Altitude of gage is 4,800 ft (1,463 m), from topographic map.

REMARKS.--Records fair except those above 30 ft³/s (0.85 m³/s), which are poor. Diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed discharge, 51 ft³/s (1.44 m³/s), from rating curve extended above 25 ft³/s (0.71 m³/s), Jan. 12, 1980, gage height, 1.00 ft (0.305 m); minimum observed 0.89 ft³/s (0.025 m³/s) July 31, 1980, gage height, 0.24 ft (0.0732 m).

EXTREMES FOR CURRENT YEAR.--Maximum observed discharge, 51 ft³/s (1.44 m³/s), from rating curve extended above 25 ft³/s (0.71 m³/s), Jan. 12, gage height, 1.00 ft (0.305 m); minimum observed 0.89 ft³/s (0.025 m³/s) July 31, gage height, 0.24 ft (0.0732 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	5.8	7.4	7.8	7.4	6.5	8.3	20	23	12	2.8	4.7
2	3.8	5.8	7.4	8.3	6.5	6.5	8.8	20	36	8.8	2.8	4.7
3	5.8	6.5	7.4	8.3	6.5	9.3	8.8	26	30	8.8	2.2	3.5
4	2.4	7.0	7.4	8.3	7.4	7.4	8.8	27	28	10	2.2	3.5
5	1.7	7.0	7.4	8.3	7.4	7.4	8.8	22	28	10	2.6	3.5
6	2.4	6.1	7.4	8.3	6.5	7.4	8.8	20	29	12	2.2	3.5
7	3.5	7.0	7.4	7.4	6.5	7.4	8.8	22	28	9.3	2.6	4.7
8	2.2	7.0	7.4	7.4	6.5	7.4	8.8	24	26	9.3	2.6	5.4
9	4.1	6.1	7.8	8.3	6.5	7.4	8.8	28	28	9.3	2.2	4.7
10	3.0	5.4	7.8	9.3	6.5	7.4	8.8	24	28	9.3	6.1	4.7
11	3.3	6.1	7.8	7.4	7.4	7.8	8.8	22	28	9.3	6.1	3.5
12	3.5	5.8	7.8	48	7.4	7.8	8.8	21	24	9.3	6.1	4.1
13	4.1	6.1	7.8	14	6.5	7.8	9.3	19	22	9.3	2.0	7.0
14	5.4	6.1	7.8	8.3	6.5	7.8	9.8	19	24	5.4	3.8	9.8
15	5.4	6.1	7.8	8.3	7.4	7.8	10	20	31	5.4	3.8	8.8
16	5.4	7.0	7.8	8.3	24	7.8	12	21	29	5.4	8.3	8.8
17	5.4	7.0	7.8	7.4	19	9.8	14	19	27	5.4	7.4	8.8
18	5.4	6.1	7.8	7.4	20	8.8	16	20	22	4.7	7.4	8.8
19	5.8	6.1	7.8	7.4	12	8.8	17	21	22	5.4	8.3	8.8
20	5.8	6.5	7.0	7.4	9.3	7.8	16	19	22	4.7	7.4	8.8
21	5.8	6.5	7.0	7.4	7.4	7.8	17	19	21	4.1	7.4	9.8
22	5.8	6.5	7.8	7.4	8.8	8.3	18	19	21	4.1	7.4	9.8
23	5.8	6.5	7.8	7.4	7.4	8.3	19	19	16	4.1	7.4	9.8
24	5.8	7.4	7.8	7.4	7.4	8.3	20	17	16	3.8	6.5	9.8
25	5.1	7.4	7.8	7.4	7.4	8.3	20	22	16	3.3	6.5	9.8
26	5.1	7.4	7.8	7.4	7.4	8.3	20	22	14	3.8	2.0	9.3
27	5.1	7.4	7.8	6.5	8.3	8.3	19	22	12	4.4	2.4	5.1
28	5.8	7.0	7.8	6.5	8.3	8.3	20	23	12	3.8	4.4	5.1
29	5.1	7.4	7.8	6.5	7.4	8.3	21	22	12	3.8	1.4	4.4
30	5.8	7.4	7.8	6.5	---	8.3	20	21	11	3.3	1.4	4.4
31	5.8	---	7.8	6.5	---	8.3	---	23	---	.89	4.7	---
TOTAL	145.2	197.5	237.0	282.5	257.0	246.9	403.2	663	688	202.49	140.4	197.4
MEAN	4.68	6.58	7.65	9.11	8.86	7.96	13.4	21.4	22.9	6.53	4.53	6.58
MAX	5.8	7.4	7.8	48	24	9.8	21	28	36	12	8.3	9.8
MIN	1.7	5.4	7.0	6.5	6.5	6.5	8.3	17	11	.89	1.4	3.5
AC-FT	288	392	470	560	510	490	800	1320	1360	402	278	392

WTR YR 1980 TOTAL 3660.59 MEAN 10.0 MAX 48 MIN .89 AC-FT 7260

13066000 BLACKFOOT RIVER NEAR SHELLEY, ID

LOCATION.--Lat 43°15'46", long 112°02'48", in NW¼SW¼NE¼ sec.7, T.2 S., R.38 E., Bingham County, Hydrologic Unit 17040207, on right bank 1.2 mi (1.9 km) downstream from Wolverine Creek, 8.5 mi (13.7 km) southeast of Shelley, and at mile 30.5 (49.1 km).

DRAINAGE AREA.--909 mi² (2,354 km²).

PERIOD OF RECORD.--July 1909 to November 1926, May 1926 to September 1950 (irrigation seasons only), August 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,650 ft (1,417 m), from topographic map. Prior to Aug. 19, 1975, at nearby site at different datum.

REMARKS.--Records fair except those for winter period, which are poor. Flow regulated by Blackfoot Reservoir (station 13065000) 38.5 mi (61.9 km) upstream. Water diverted from reservoir and several other diversions upstream for irrigation.

AVERAGE DISCHARGE.--22 years (1910-26, 1976-80), 349 ft³/s (9.884 m³/s), 252,800 acre-ft/yr (312 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,030 ft³/s (57.5 m³/s) May 17, 18, 1976, gage height, 8.14 ft (2.481 m); maximum gage height, 19.97 ft (6.087 m) Nov. 29, 1975 (backwater from ice); minimum observed discharge, 15 ft³/s (0.42 m³/s) Jan. 23, 1919, gage height, 2.83 ft (0.862 m), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) July 17-19; gage height, 7.23 ft (2.204 m), minimum daily, 44 ft³/s (1.25 m³/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	75	67	64	58	87	79	227	250	723	950	399
2	179	71	76	62	62	79	77	192	258	723	942	398
3	182	79	90	59	67	88	82	180	265	745	942	397
4	182	83	83	58	67	89	85	185	247	791	917	395
5	182	89	80	56	60	88	97	188	242	791	753	395
6	144	88	80	54	59	79	111	170	249	791	745	391
7	133	86	77	53	61	68	90	172	608	783	738	393
8	130	85	80	50	60	72	88	202	608	775	738	419
9	130	84	79	54	55	71	96	227	609	679	745	594
10	133	75	72	55	54	78	105	254	605	679	745	591
11	101	83	64	51	58	85	96	251	601	760	745	590
12	61	80	65	54	60	79	96	267	598	893	745	418
13	53	87	67	68	65	68	108	270	595	893	738	406
14	48	84	70	120	64	81	118	245	600	861	745	392
15	48	78	82	103	77	80	135	234	610	885	775	388
16	59	76	76	84	96	67	147	248	600	901	775	385
17	60	72	78	73	98	74	152	302	420	1070	768	386
18	58	71	82	62	252	76	183	290	415	1070	731	387
19	58	68	84	59	198	79	203	256	417	1070	531	323
20	71	66	76	54	223	82	229	237	560	1050	518	320
21	86	64	72	59	126	88	298	225	869	1040	508	322
22	83	64	66	60	95	81	337	220	885	1050	411	319
23	80	64	63	59	81	84	345	220	893	1050	403	317
24	80	64	66	59	75	79	324	239	821	1050	404	315
25	80	64	62	55	74	82	301	263	829	1050	400	316
26	79	65	60	50	80	74	262	270	814	1050	401	269
27	77	66	56	47	95	82	240	273	716	1050	402	262
28	77	66	52	44	95	73	216	243	708	1050	402	257
29	77	58	49	48	95	80	210	233	716	1030	399	253
30	75	62	52	50	---	84	235	240	716	1030	395	253
31	70	---	62	54	---	77	---	244	---	1050	400	---
TOTAL	3061	2217	2188	1878	2611	2454	5145	7267	17324	28433	19811	11250
MEAN	98.7	73.9	70.6	60.6	90.0	79.2	172	234	577	917	639	375
MAX	185	89	90	120	252	89	345	302	893	1070	950	594
MIN	48	58	49	44	54	67	77	170	242	679	395	253
AC-FT	6070	4400	4340	3730	5180	4870	10210	14410	34360	56400	39300	22310

CAL YR 1979 TOTAL 106490 MEAN 292 MAX 1060 MIN 48 AC-FT 211200
WTR YR 1980 TOTAL 103639 MEAN 283 MAX 1070 MIN 44 AC-FT 205600

13068495 BLACKFOOT RIVER BYPASS NEAR BLACKFOOT, ID

LOCATION.--Lat 43°10'16", long 112°23'13", in SE¼SW¼ sec.8, T.3 S., R.35 E., Bingham County, Hydrologic Unit 17040207, on right bank at flood diversion structure about 400 ft (122 m) downstream from U.S. Highway 15 bridge, and 2.5 mi (4.0 km) southwest of Blackfoot.

DRAINAGE AREA.--

PERIOD OF RECORD.--April 1964 to current year. (Prior to 1975, only combined monthly flows of main river and of bypass channel were published.)

GAGE.--Water-stage recorder. Datum of gage is 4,469.0 ft (1,362.2 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records fair except those for winter periods, which are poor. Flow regulated by Blackfoot Reservoir (see sta 13065000). Diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,560 ft³/s (44.2 m³/s) May 5, 1974, gage height, 8.69 ft (2.65 m); no flow for many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 481 ft³/s (13.6 m³/s) May 19, gage height, 5.81 ft (1.771 m); no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	129	8.0	.00	5.0	11	.00	88	106	.00	115	41
2	112	97	15	.00	.00	5.0	.00	70	124	.00	126	36
3	112	76	2.3	.00	.00	4.6	.00	36	166	.00	145	27
4	99	81	3.2	.00	.00	6.4	.00	6.4	193	8.5	204	26
5	79	81	3.7	.00	.00	7.1	.00	.00	218	74	182	14
6	67	72	2.3	.00	.00	9.2	.25	1.4	303	88	110	3.7
7	51	65	2.8	.00	.00	1.4	.25	14	386	72	119	2.8
8	40	58	3.2	.00	.00	.38	.00	20	412	36	122	4.1
9	30	40	3.2	.00	.00	.25	.00	45	374	.95	139	32
10	35	51	2.3	.00	.00	.25	.00	79	266	.25	145	56
11	45	29	.25	.00	.00	.38	.13	145	158	34	179	76
12	77	36	.00	.00	.00	1.9	.00	199	131	35	179	150
13	119	33	.38	77	.00	.38	.00	238	99	34	124	204
14	121	32	5.7	101	.00	.25	.00	252	67	45	104	218
15	150	26	.00	92	.00	.25	.00	246	72	16	117	221
16	201	22	1.9	67	.25	.00	.00	241	67	.38	196	199
17	235	30	.95	27	11	.00	.00	258	60	9.2	272	193
18	258	27	.25	11	49	.25	.00	309	39	32	303	193
19	263	20	.00	.00	176	.13	.95	371	16	33	292	199
20	249	11	.13	.00	306	.00	11	309	.13	45	283	187
21	224	7.8	.13	.00	309	.13	3.7	190	12	65	260	187
22	224	11	.00	.00	85	.00	17	142	70	55	182	174
23	221	3.7	.00	.00	26	.00	20	94	155	40	134	160
24	227	3.2	.00	.00	11	.00	60	81	166	27	99	158
25	221	3.7	.00	.00	6.4	.00	97	129	83	13	62	150
26	215	3.7	.00	.00	4.1	.00	74	190	16	21	33	131
27	201	1.0	.00	.00	5.7	.00	63	210	.25	46	32	92
28	199	6.0	.00	.00	15	.00	49	218	.00	71	33	56
29	204	.00	.00	.00	21	.00	48	204	.00	78	26	35
30	201	.50	.00	.00	---	.00	76	160	.25	79	28	11
31	182	---	.00	2.0	---	.00	---	115	---	95	35	---
TOTAL	4739	1056.60	55.69	377.00	1030.45	49.25	520.28	4660.80	3759.63	1153.28	4380	3236.6
MEAN	153	35.2	1.80	12.2	35.5	1.59	17.3	150	125	37.2	141	108
MAX	263	129	15	101	309	11	97	371	412	95	303	221
MIN	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	26	2.8
AC-FT	9400	2100	110	748	2040	98	1030	9240	7460	2290	8690	6420

CAL YR 1979 TOTAL 17873.23 MEAN 49.0 MAX 263 MIN .00 AC-FT 35450
WTR YR 1980 TOTAL 25018.58 MEAN 68.4 MAX 412 MIN .00 AC-FT 49620

13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID

LOCATION.--Lat 43°07'50", long 112°28'35", near E¼ cor. sec.28, T.3 S., R.34 E., Bingham County, Hydrologic Unit 17040207, Fort Hall Indian Reservation, on left bank 11 ft (3 m) upstream from highway bridge, 8 mi (13 km) southwest of Blackfoot, and at mile 3.4 (5.5 km).

DRAINAGE AREA.--1,295 mi² (3,354 km²), including that of Sand Creek whose flow is diverted to Blackfoot River through the Idaho Canal.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1913 to current year (prior to October 1931, summer months only). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,420 ft (1,350 m), from river-profile survey. Prior to May 8, 1926, nonrecording gage and May 8, 1926, to June 25, 1937, water-stage recorder at site 0.5 mi (0.8 km) upstream at different datum. June 26, 1937, to Aug. 16, 1963, water-stage recorder at site 175 ft (53 m) downstream at same datum.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated by Blackfoot Reservoir (see sta 13065000). Diversions above station for irrigation of about 28,000 acres (11,000 hm²) below and about 32,000 acres (13,000 hm²) above station of which about 900 acres (360 hm²) are by withdrawals from ground water (1966 determination). Part of flow is supplied by waste from Snake River canals. Diversions to bypass channel, which diverts 5.5 mi (8.8 km) upstream from station, started in April 1964. For records of combined discharges, see following page.

AVERAGE DISCHARGE.--49 years, river only (1932-63), combined river and bypass channel (1964-80), 193 ft³/s (5.466 m³/s) 139,800 acre-ft/yr (172 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--River only, maximum discharge, 1,710 ft³/s (48.4 m³/s) Feb. 11, 1962, gage height, 7.68 ft (2.341 m); no flow on many days. Combined flow, maximum discharge, 2,130 ft³/s (60.3 m³/s) May 5, 1974; no flow on many days.

EXTREMES FOR CURRENT YEAR.--River only, maximum discharge, 356 ft³/s (10.1 m³/s) Jan. 13, gage height, 3.86 ft (1.177 m); minimum, 5.4 ft³/s (0.153 m³/s) July 10, gage height 1.24 ft (0.378 m). Combined flow, maximum discharge, 820 ft³/s (23.2 m³/s) May 19; minimum, 5.4 ft³/s (0.153 m³/s) July 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	215	100	69	64	112	70	184	188	43	168	120
2	171	187	110	66	67	101	69	169	198	20	175	125
3	183	166	125	62	71	99	66	145	225	22	196	124
4	173	171	142	63	71	103	68	104	248	56	225	127
5	160	171	103	73	69	104	59	58	261	118	224	112
6	152	166	99	77	64	107	71	24	295	130	180	100
7	146	167	100	72	64	96	85	80	328	127	179	93
8	139	161	101	66	63	85	71	85	338	104	178	90
9	131	140	101	78	60	84	67	113	325	58	187	119
10	138	130	99	72	58	84	73	153	281	22	194	141
11	152	138	96	67	60	88	79	203	229	98	219	158
12	164	143	73	61	63	92	47	239	217	104	224	214
13	200	140	73	176	66	85	49	260	185	105	194	251
14	196	138	113	196	69	80	49	266	157	112	166	267
15	209	134	125	193	64	85	44	260	158	83	188	278
16	240	127	122	184	80	83	43	262	149	57	240	283
17	251	136	93	140	106	72	42	277	135	63	279	282
18	261	133	101	119	144	74	55	294	110	98	299	284
19	262	124	106	105	217	77	54	308	78	99	300	288
20	255	115	90	80	249	80	97	292	44	109	293	272
21	248	101	93	88	248	83	42	236	57	119	287	262
22	248	100	90	89	185	84	101	209	118	113	248	271
23	246	101	79	88	120	74	105	170	171	107	201	272
24	249	101	89	87	111	75	124	164	187	99	178	275
25	246	106	77	87	104	73	186	194	141	94	154	265
26	245	106	74	71	100	73	177	239	68	102	125	254
27	242	109	71	62	102	71	184	260	48	135	122	214
28	242	94	71	53	112	74	148	263	37	147	118	178
29	243	78	59	55	124	68	145	247	41	140	113	164
30	242	86	58	58	---	71	157	228	56	146	115	130
31	237	---	54	61	---	75	---	194	---	158	121	---
TOTAL	6409	3988	2887	2816	3066	2613	2674	6186	5063	2988	6090	6013
MEAN	207	133	93.1	90.8	106	84.3	89.1	200	169	96.4	196	200
MAX	262	215	142	196	249	112	186	308	338	158	300	288
MIN	131	78	54	53	58	68	42	24	37	20	113	90
AC-FT	12710	7910	5730	5590	6080	5180	5300	12270	10040	5930	12080	11930

CAL YR 1979 TOTAL 43522.0 MEAN 119 MAX 288 MIN 4.0 AC-FT 86330
WTR YR 1980 TOTAL 50795.0 MEAN 139 MAX 338 MIN 20 AC-FT 100800

13068501 BLACKFOOT RIVER NEAR BLACKFOOT, ID--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, RIVER AND BYPASS CHANNEL NEAR BLACKFOOT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	344	108	69	69	123	70	272	292	43	283	161
2	283	284	125	66	67	106	69	239	320	20	301	161
3	295	242	127	62	71	104	68	181	391	22	341	151
4	272	252	145	63	71	109	68	110	439	65	429	153
5	239	252	107	73	69	111	69	58	479	192	406	126
6	219	238	101	77	64	116	71	25	598	218	290	104
7	197	232	103	72	64	97	85	94	712	199	298	96
8	179	219	104	66	63	85	71	105	750	140	300	94
9	161	180	104	78	60	84	67	158	699	59	326	151
10	173	181	101	72	58	84	73	232	547	22	339	197
11	197	167	96	67	60	88	79	348	387	132	398	234
12	241	174	73	61	63	94	47	438	348	139	403	364
13	319	173	73	253	66	86	49	498	284	139	318	455
14	317	170	119	297	69	80	49	518	224	157	270	485
15	359	160	125	285	69	85	44	586	230	99	305	499
16	441	149	124	251	80	83	43	503	216	57	436	482
17	480	166	94	167	117	72	42	535	195	72	551	475
18	519	160	101	130	193	74	55	603	149	130	602	477
19	525	148	106	105	343	77	65	679	94	132	592	487
20	504	126	90	80	595	80	108	601	44	154	576	459
21	472	109	93	88	597	83	86	426	69	184	547	449
22	472	111	90	89	270	84	116	351	180	168	430	445
23	467	105	79	88	152	74	125	270	326	147	335	432
24	476	104	89	87	122	75	189	245	353	126	277	433
25	467	110	77	87	110	73	283	323	224	107	216	415
26	460	110	74	71	104	73	251	424	84	123	158	385
27	443	110	71	62	108	71	227	470	48	181	154	306
28	441	100	71	53	127	74	197	481	37	218	151	234
29	447	78	59	55	145	68	193	451	41	218	139	199
30	443	87	58	58	---	71	233	388	56	225	143	161
31	419	---	54	63	---	75	---	309	---	253	156	---
TOTAL	11148	5046	2941	3195	4096	2654	3194	10846	8822	4141	10470	9250
MEAN	360	168	94.9	103	141	85.6	106	350	294	134	338	308
MAX	525	344	145	297	597	123	283	679	750	253	602	499
MIN	161	78	54	53	58	68	42	25	37	20	139	94
AC-FT	22110	10010	5830	6340	8120	5270	6340	21510	17500	8210	20770	18350

CAL YR 1979 TOTAL 61402.0 MEAN 168 MAX 525 MIN 9.0 AC-FT 121800
WTR YR 1980 TOTAL 75806.0 MEAN 207 MAX 750 MIN 20 AC-FT 150400

NOTE.--The combined discharge represents the total surface flow from the Blackfoot River to the Snake River.

13068500 BLACKFOOT RIVER NEAR BLACKFOOT, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966, 1968-70, 1972 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1966, 1968-69.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT									
09...	1530	130	384	8.9	23.5	14.0	180	48	48
NOV									
21...	1640	101	405	8.9	-6.0	.5	230	42	60
JAN									
15...	1300	198	291	--	6.0	2.0	--	--	--
MAR									
04...	1450	105	600	--	6.0	7.0	--	--	--
MAY									
01...	1610	186	383	8.1	30.0	14.5	160	30	46
AUG									
28...	1125	115	330	--	23.0	17.0	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT									
09...	14	13	14	.4	2.8	130	38	13	.6
NOV									
21...	20	18	14	.5	4.0	190	45	12	.7
JAN									
15...	--	--	--	--	--	--	--	--	--
MAR									
04...	--	--	--	--	--	--	--	--	--
MAY									
01...	11	11	13	.4	2.9	130	34	10	.5
AUG									
28...	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT								
09...	12	220	.30	77.2	.00	.030	--	--
NOV								
21...	23	299	.41	81.5	.30	.030	--	--
JAN								
15...	--	--	--	--	--	--	--	--
MAR								
04...	--	--	--	--	--	--	--	--
MAY								
01...	15	210	.29	105	.23	.360	33	17
AUG								
28...	--	--	--	--	--	--	--	--

13069500 SNAKE RIVER NEAR BLACKFOOT, ID

LOCATION.--Lat 43°07'31", long 112°31'06", in SE¼SE¼ sec.30, T.3 S., R.34 E., Bingham County, Hydrologic Unit 17040206, on right bank 0.3 mi (0.5 km) downstream from highway bridge, 0.7 mi (1.1 km) downstream from Blackfoot River, 10 mi (16 km) southwest of Blackfoot, and at mile 750.1 (1,206.9 km).

DRAINAGE AREA.--11,310 mi² (29,290 km²), approximately, excluding indeterminate nontributary area on Snake River Plain.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1910 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "at Clough ranch, near Blackfoot" 1924-45.

GAGE.--Water-stage recorder. Datum of gage is 4,399.83 ft (1,341.068 m) National Geodetic Vertical Datum of 1929. Prior to July 6, 1913, nonrecording gages; July 6, 1913, to Aug. 19, 1962, water-stage recorder at site 0.1 mi (0.2 km) upstream at datum 1.00 ft (0.3 m) higher.

REMARKS.--Records good. Flow regulated by Jackson Lake (see sta 13010500), Palisades Reservoir (see sta 13032450), Henrys Lake (see sta 13039000), Grassy Lake (see sta 13046500), Island Park Reservoir (see sta 13042000), and Blackfoot Reservoir (see sta 13065000), having a combined capacity of 2,883,000 acre-ft (3,550 hm³). Diversions above station for irrigation of about 121,000 acres (49,000 hm²) below and about 832,000 acres (337,000 hm²) above station of which about 155,000 acres (62,700 hm²) are by withdrawals from ground water (1966 determination). Considerable water leaks above the station into the Snake Plain aquifer.

AVERAGE DISCHARGE.--70 years, 4,782 ft³/s (135.4 m³/s), 3,465,000 acre-ft/yr (4,270 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 53,500 ft³/s (1,520 m³/s) June 7, 1976, gage height, 15.44 ft (4.706 m) result of Teton Dam failure, maximum discharge, excluding 1976, 46,200 ft³/s (1,310 m³/s) June 18, 1918, gage height, 14.80 ft (4.511 m) site and datum then in use; minimum, 111 ft³/s (3.14 m³/s) Nov. 10, 1934, gage height, 0.80 ft (0.244 m), site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Late in summer of 1905 there was no flow in Snake River for a distance of 10 mi (16 km) in vicinity of Blackfoot. Aug. 9, 1905, discharge of Snake River just below mouth of Blackfoot River was 39 ft³/s (1.10 m³/s), supplied by ground-water inflow a short distance upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,800 ft³/s (589 m³/s) June 8, gage height, 10.21 ft (3.112 m); minimum, 310 ft³/s (8.78 m³/s) Oct. 10, gage height, 1.30 ft (0.396 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Dec. 15 to Feb. 13, Mar. 21 to June 18;
stage-discharge relation affected by ice Nov. 30, Dec. 1, 11, Jan. 10, 29)

1.3	289	5.0	4600
1.5	391	7.0	9220
2.2	860	8.0	12300
3.0	1630	9.0	15700
4.0	2920	10.3	20600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	1940	1900	2340	1750	2720	5800	10900	18700	5010	1950	622
2	1350	2020	2020	2710	2140	2700	5910	10700	19200	4350	2210	660
3	1300	1960	2380	2680	2240	2560	5890	10500	19800	4390	2380	582
4	991	2010	2500	2810	2410	2400	5990	9960	20500	5320	3090	614
5	761	2040	2610	2710	2490	2420	6280	9420	20400	6660	2980	527
6	725	2050	2700	2470	2570	2500	6260	8610	19500	7130	2350	519
7	660	2110	2750	2310	2550	2390	6410	8360	17600	6920	1970	504
8	521	2130	2650	2440	2430	2240	6420	8010	20600	5840	1470	501
9	462	2040	2630	2190	2370	2060	6030	8370	20400	4170	1440	516
10	385	2000	2590	1700	2300	2010	3890	9350	19500	2760	1550	576
11	380	1910	2300	1800	2150	1820	3160	10700	17900	1940	1810	776
12	604	1950	1980	2420	2120	1840	2980	12400	16200	1510	1620	1060
13	747	1940	1840	3000	2150	1880	2890	13100	15000	1330	1340	1750
14	747	1910	2330	3510	2200	1860	2760	13100	13800	1410	976	2250
15	743	1900	2370	3680	2210	1830	2740	12600	13600	1240	825	2400
16	996	1930	2520	3830	2230	1910	2740	12100	14100	1160	1180	2290
17	1130	1930	2440	3520	2290	1900	2670	11500	13200	1230	2100	1980
18	1170	1930	2470	3120	2520	1790	2710	11700	12500	1410	2670	1860
19	1360	1910	2500	2640	3260	1700	2700	12100	10500	1880	3020	1680
20	1440	1990	2670	2470	4130	1710	2730	12100	6590	2170	3530	1530
21	2070	1890	2610	2250	4620	1730	2760	11800	6810	2460	3960	1460
22	2380	1900	2610	2250	4530	1700	3060	11400	8460	2390	3290	1360
23	2330	2110	2510	2330	3730	1640	4430	12200	9330	1720	2760	1440
24	2210	2130	2540	2300	3100	1460	6020	12500	9310	1530	2100	1500
25	2160	2270	2520	2430	2760	1570	8460	13000	8840	1540	1640	1340
26	2090	2390	2490	2000	2580	1550	9120	15500	7780	1650	962	1050
27	2060	2130	2470	1630	2420	1530	9760	17400	5980	2020	541	770
28	2040	2000	2280	1270	2380	1540	11100	18300	5590	2170	447	562
29	1870	1850	1620	1150	2600	2730	11300	18700	5610	2070	367	494
30	1950	1800	1640	1020	---	5180	11000	18700	5540	1720	406	465
31	1970	---	1750	1240	---	5700	---	18500	---	1650	551	---
TOTAL	40932	60050	73190	74220	77230	68570	163950	383580	402840	88660	57485	33630
MEAN	1320	2002	2361	2394	2663	2212	5465	12370	13430	2860	1854	1121
MAX	2380	2390	2750	3830	4620	5700	11300	18700	20600	7130	3960	2400
MIN	380	1800	1620	1020	1750	1460	2670	8010	5540	1160	367	465
AC-FT	81190	119100	145200	147200	153200	136000	325200	760800	799000	175900	114000	66720

CAL YR 1979 TOTAL 1419071 MEAN 3888 MAX 9940 MIN 156 AC-FT 2815000
WTR YR 1980 TOTAL 1524345 MEAN 4165 MAX 20600 MIN 367 AC-FT 3024000

13069500 SNAKE RIVER NEAR BLACKFOOT, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-73, 1975 to current year.

REMARKS.--Miscellaneous chemical data published for water years 1974 and 1979.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 09...	1310	466	435	--	22.5	12.5	--	--	--	--	--	--
NOV 21...	1425	1950	337	9.0	9.0	2.0	140	13	39	11	20	23
JAN 14...	1620	3520	315	--	8.0	1.5	--	--	--	--	--	--
MAR 04...	1255	2500	343	--	25.0	7.0	--	--	--	--	--	--
MAY 01...	1341	11100	305	8.1	28.0	11.0	130	34	36	9.5	9.9	14
AUG 28...	1345	405	558	--	24.5	17.0	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 09...	--	--	--	--	--	--	--	--	--	--	--	--
NOV 21...	.7	3.1	130	34	10	1.4	25	223	.30	1170	.31	.010
JAN 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 04...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 01...	.4	2.0	100	36	7.9	.6	13	178	.24	5330	.15	.120
AUG 28...	--	--	--	--	--	--	--	--	--	--	--	--

13069540 DANIELSON CREEK NEAR SPRINGFIELD, ID

LOCATION.--Lat 43°03'32", long 112°41'24", in NW¼SW¼ sec. 23, T.4 S., R.32 E., Bingham County, Hydrologic Unit 17040206, on right bank 15 ft (4.57 m) upstream from county road bridge, 150 ft (45.7 m) upstream of falls into American Falls Reservoir, 2.5 mi (4.02 km) south of Springfield.

DRAINAGE AREA.--

PERIOD OF RECORD.--Miscellaneous measurements only 1926-29, 1932-77, May to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 4,365 ft (1,330 m), from topographic map.

REMARKS.--Records good except those for August and September, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67 ft³/s (1.90 m³/s), July 4, 1980, gage height, 4.73 ft (1.442 m); minimum, 50 ft³/s (1.42 m³/s) May 7, 1980, gage height 4.43 ft (1.350 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67 ft³/s (1.90 m³/s) July 4, 1980, gage height, 4.73 ft (1.442 m); minimum, 50 ft³/s (1.42 m³/s) May 7, 1980, gage height 4.43 ft (1.350 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	55	60	62	63
2								---	56	62	62	63
3								---	56	64	62	63
4								---	58	66	62	63
5								---	58	63	62	63
6								---	58	64	62	63
7								52	57	64	62	63
8								52	57	63	62	63
9								53	58	63	52	63
10								53	58	62	62	63
11								55	59	59	62	63
12								56	59	59	62	63
13								55	59	59	62	63
14								54	59	61	62	63
15								53	58	60	62	63
16								53	59	59	62	63
17								54	59	60	62	63
18								54	60	60	62	62
19								53	61	60	62	62
20								52	62	61	62	62
21								51	60	61	62	61
22								51	61	61	62	61
23								52	61	59	62	61
24								52	62	58	63	60
25								53	61	59	63	60
26								53	59	59	63	60
27								55	60	60	63	59
28								56	60	61	63	59
29								55	59	61	63	59
30								54	60	61	63	58
31								55	---	62	63	---
TOTAL	---	---	---	---	---	---	---	---	1769	1891	1930	1855
MEAN	---	---	---	---	---	---	---	---	59.0	61.0	62.3	61.8
MAX	---	---	---	---	---	---	---	---	62	66	63	63
MIN	---	---	---	---	---	---	---	---	55	58	62	58
AC-FT	---	---	---	---	---	---	---	---	3510	3750	3830	3680

NOTE.--No gage-height record Aug. 1 to Sept. 30.

13070300 PORTNEUF RESERVOIR NEAR CHESTERFIELD, ID

LOCATION.--Lat 42°52'42", long 111°56'38", in SW¼SW¼SW¼ sec.19, T.6 S., R.39 E., Bannock County, Hydrologic Unit 17040208, at outlet of lake on Portneuf River 2.5 mi (4.0 km) northwest of Chesterfield, Idaho.

DRAINAGE AREA.--100 mi² (259 km²).

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Nonrecording gage, sloping gage on dam face. Altitude of gage is 5,630 ft (1,720 m), levels by Portneuf-Marsh Valley Canal Co.

REMARKS.--Reservoir is formed by earth-fill, rock-faced dam. The dam was completed in 1911 with a capacity of 16,400 acre-ft (20.2 hm³). In 1951, the dam was enlarged and the capacity was increased to 24,000 acre-ft (29.6 hm³). Flow from the reservoir is regulated by gates at the outlet control house. Altitude of the crest of the spillway is 5,681 ft (1,730 m). Dam is owned and operated by the Portneuf-Marsh Valley Canal Co. Reservoir is used for flood control and to store water for irrigation in Portneuf River valley.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 46.00 ft (14.021 m) May 24, 1980; minimum observed, 26.71 ft (8.141 m) Oct. 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 46.00 ft (14.021 m) May 24, 1980; minimum observed, 26.71 ft (8.141 m) Oct. 23, 1979.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	34,30	---	---	---	---	---	---
2	---	---	---	---	31,60	---	---	---	---	---	41,20	---
3	---	---	---	---	---	---	---	42,00	---	---	---	---
4	---	---	---	---	---	---	36,90	---	---	---	---	---
5	---	---	---	---	31,87	---	---	---	---	45,20	---	---
6	---	---	---	---	---	---	---	---	---	---	---	34,80
7	---	---	---	---	---	---	---	---	45,50	---	---	---
8	---	---	---	---	---	34,70	---	---	---	---	---	---
9	---	---	---	---	32,00	---	---	---	---	---	38,70	---
10	---	---	---	---	---	---	---	44,10	---	---	---	---
11	---	---	29,01	---	---	---	---	---	---	---	---	34,83
12	---	---	---	30,10	---	---	37,80	---	---	44,00	---	---
13	---	---	---	---	---	---	---	---	---	---	---	34,78
14	---	---	---	---	---	---	---	---	45,70	---	---	---
15	---	---	---	---	---	35,30	---	45,46	---	---	---	---
16	---	---	---	---	32,50	---	---	---	---	43,71	38,30	---
17	---	---	---	---	---	---	---	45,90	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	30,10	---	---	38,80	---	---	43,20	---	---
20	---	---	---	---	---	---	---	---	---	---	---	34,80
21	---	---	---	---	---	---	---	---	45,70	---	---	---
22	---	---	---	---	---	35,70	---	---	---	---	---	---
23	26,71	---	---	---	33,00	---	---	---	---	---	36,49	---
24	---	---	---	---	---	---	---	46,00	---	---	---	---
25	---	28,00	---	---	---	36,09	---	---	---	---	---	---
26	---	---	---	30,10	---	---	40,80	---	---	42,40	---	---
27	---	---	---	---	---	---	---	---	---	---	---	34,80
28	---	---	---	---	---	---	---	---	45,50	---	---	---
29	---	---	29,45	---	---	36,30	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	35,00	---
31	---	---	---	---	---	---	---	45,50	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

13073000 PORTNEUF RIVER AT TOPAZ, ID

LOCATION.--Lat 42°37'30", long 112°05'20", in SE¼ sec.23, T.9 S., R.37 E., Bannock County, Hydrologic Unit 17040208, on right bank 200 ft (60 m) upstream from Bob Smith Creek, 800 ft (240 m) downstream from Topaz siding, 1.5 mi (2.4 km) upstream from diversion dam of Portneuf-Marsh Valley Canal Co., 4 mi (6 km) west of Lava Hot Springs, and at mile 55.5 (89.3 km).

DRAINAGE AREA.--570 mi² (1,480 km²), approximately (includes that of Bob Smith Creek). Mean altitude, 6,080 ft (1,850 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1913 to September 1915, July 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1347: 1920-22, 1924-25(M). WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,918.00 ft (1,499.006 m) National Geodetic Vertical Datum of 1929 (levels by USGS). Prior to July 20, 1919, nonrecording gage at site 0.3 mi (0.5 km) downstream at datum 3.0 ft (0.91 m) lower. July 20, 1919, to June 22, 1954, nonrecording gage at site 0.3 mi (0.5 km) downstream at datum 2.00 ft (0.610 m) lower than present datum.

REMARKS.--Records good except those for March and April, which are fair. Flow regulated by Portneuf Reservoir (capacity 23,695 acre-ft or 29.2 hm³) and Chesterfield Reservoir on Twenty-Four Mile Creek (capacity 685 acre-ft or 0.845 hm³). Diversions above station for irrigation of about 29,000 acres (12,000 hm²) of which about 7,400 acres (3,000 hm²) are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--63 years, 197 ft³/s (5.579 m³/s), 142,700 acre-ft/yr (176 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,120 ft³/s (202 m³/s) Feb. 1, 1963, gage height, 8.22 ft (2.505 m), result of highway fill failure 2 mi (3 km) upstream; minimum, 64 ft³/s (1.81 m³/s) Sept. 23, 1966, gage height, 2.27 ft (0.692 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,150 ft³/s (32.6 m³/s) Feb. 20, gage height, 5.59 ft (1.704 m); minimum daily, 95 ft³/s (2.69 m³/s) Jan. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	125	125	110	105	210	165	357	466	171	174	143
2	104	129	128	111	104	192	165	338	488	176	172	139
3	105	132	128	111	105	178	165	318	474	176	172	140
4	105	137	127	112	107	178	165	305	426	179	170	139
5	106	138	128	109	105	201	175	290	416	181	172	138
6	108	139	129	109	106	195	175	300	417	184	174	139
7	108	138	130	109	106	184	165	305	396	184	174	142
8	108	137	131	111	103	172	160	315	351	186	171	146
9	107	137	130	111	102	164	155	330	337	186	168	141
10	108	135	131	110	103	175	155	350	317	186	168	133
11	108	139	124	95	103	222	155	370	304	185	167	138
12	100	133	122	201	103	213	160	400	307	185	167	147
13	102	133	124	515	103	178	160	440	297	186	166	148
14	101	132	122	509	107	175	160	447	286	192	166	135
15	100	132	119	426	109	210	160	410	283	192	175	137
16	103	131	121	250	110	175	161	420	269	192	182	132
17	103	136	120	183	116	172	164	425	259	193	180	117
18	106	142	119	155	336	175	170	425	244	191	179	113
19	128	140	120	131	818	178	185	428	242	195	176	115
20	131	130	120	123	1030	175	213	428	239	193	169	114
21	125	128	121	123	922	189	255	428	229	187	166	120
22	123	126	121	117	525	184	294	431	217	186	163	121
23	121	129	118	116	320	186	298	431	211	187	162	121
24	119	132	118	115	213	184	336	431	204	192	162	122
25	119	132	118	115	172	180	334	434	191	190	161	117
26	120	134	115	113	164	180	333	434	183	185	149	120
27	120	129	111	112	169	175	312	436	174	186	133	120
28	122	120	109	107	184	160	304	436	173	186	133	117
29	124	116	106	109	219	165	330	436	174	184	133	115
30	125	123	108	108	---	170	385	447	173	180	137	113
31	125	---	108	105	---	165	---	457	---	178	142	---
TOTAL	3484	3964	3751	4931	6869	5660	6514	12202	8747	5754	5083	3882
MEAN	112	132	121	159	237	183	217	394	292	186	164	129
MAX	131	142	131	515	1030	222	385	457	488	195	182	148
MIN	100	116	106	95	102	160	155	290	173	171	133	113
AC-FT	6910	7860	7440	9780	13620	11230	12920	24200	17350	11410	10080	7700

CAL YR 1979 TOTAL 58422 MEAN 160 MAX 302 MIN 92 AC-FT 115900
WTR YR 1980 TOTAL 70841 MEAN 194 MAX 1030 MIN 95 AC-FT 140500

13073000 PORTNEUF RIVER AT TOPAZ, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.
REMARKS.--Miscellaneous chemical data published for water year 1969.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 24...	1535	121	778	8.2	21.0	12.0	380	22	87	40	37	17
JAN 15...	1535	365	568	--	15.0	5.0	--	--	--	--	--	--
MAY 15...	1520	412	520	7.9	13.0	14.0	270	53	73	22	16	11
JUL 17...	0845	191	763	--	17.0	8.5	--	--	--	--	--	--
SEP 12...	0845	141	978	--	13.5	15.0	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 24...	.8	11	360	53	41	.2	25	515	.70	168	.88	.020
JAN 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	.4	5.9	220	29	23	.1	17	320	.44	356	.49	.570
JUL 17...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--	--	--

13075000 MARSH CREEK NEAR MCCAMMON, ID

LOCATION.--Lat 42°37'48", long 112°13'29", in NE¼ sec.22, T.9 S., R.36 E., Bannock County, Hydrologic Unit 17040208, 70 ft (21 m) upstream from county road crossing, 2 mi (3 km) southwest of McCammon, and at mile 16.8 (27.0 km).

DRAINAGE AREA.--353 mi² (914 km²). Mean altitude, 5,630 ft (1,720 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,610 ft (1,405 m), by barometer. Prior to July 14, 1965, nonrecording gage 10 ft (3 m) upstream at same datum.

REMARKS.--Records fair except those for July and August, which are poor. Diversions above station for irrigation of about 19,000 acres (7,700 hm²) of which about 5,500 acres (2,200 hm²) are by withdrawals from ground water and about 5,000 acres (2,000 hm²) are by diversions into Marsh Creek basin from Portneuf River through the Marsh Valley Canal (1966 determination). Part of Birch Creek (tributary to Marsh Creek) diverted into Devil Creek in Bear River basin.

AVERAGE DISCHARGE.--26 years, 84.1 ft³/s (2.38 m³/s), 60,930 acre-ft/yr (75.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 1,120 ft³/s (31.7 m³/s) Feb. 12, 1962, gage height, 13.25 ft (4.039 m); minimum, 16 ft³/s (0.45 m³/s) Dec. 6, 1978, gage height, 2.59 ft (0.789 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 856 ft³/s (24.2 m³/s) Jan. 15, gage height, 11.98 ft (3.652 m); minimum daily, 27 ft³/s (0.76 m³/s) Aug. 9; minimum gage height, 2.24 ft (0.683 m) Nov. 25.

REVISIONS.--Drainage area revised to 353 mi² (914 km²).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	55	52	51	84	149	99	153	198	74	40	47
2	65	55	55	53	77	145	97	141	206	78	41	48
3	60	62	59	54	71	146	94	138	214	77	34	49
4	60	71	55	55	79	148	93	144	202	77	28	49
5	63	69	60	57	86	143	91	134	197	84	31	50
6	67	62	62	54	95	144	99	138	213	80	35	51
7	64	63	68	48	94	134	90	137	220	78	33	51
8	62	71	78	53	88	126	97	146	197	79	32	51
9	61	67	92	55	83	122	91	157	188	74	27	49
10	54	61	98	129	79	117	88	162	180	69	33	47
11	57	61	77	65	76	116	92	177	171	62	35	55
12	60	61	69	80	76	111	92	186	169	60	36	83
13	60	60	61	449	76	109	92	178	162	54	38	88
14	54	59	65	743	80	111	95	179	162	59	42	99
15	55	57	63	826	138	106	95	166	161	54	50	87
16	57	57	64	705	209	95	98	192	157	51	65	83
17	56	61	65	571	250	99	95	219	149	50	70	74
18	56	72	59	464	444	98	95	221	125	49	64	86
19	71	69	55	334	572	92	93	205	113	50	60	72
20	83	63	60	345	585	93	92	195	128	48	60	69
21	75	54	63	332	535	100	94	188	121	49	54	76
22	72	55	64	292	440	101	98	182	115	48	57	71
23	70	57	60	249	338	95	102	180	107	44	57	74
24	65	60	55	193	249	93	114	202	107	44	62	70
25	64	31	63	156	225	97	114	214	90	40	70	71
26	61	79	62	107	205	97	115	204	85	38	62	63
27	57	69	55	88	187	101	117	197	79	42	55	59
28	56	52	51	85	173	93	114	190	76	36	61	60
29	59	40	52	86	163	91	113	217	72	36	49	60
30	55	51	49	85	---	95	154	213	74	35	47	65
31	56	---	50	86	---	97	---	200	---	38	45	---
TOTAL	1916	1804	1941	6950	5857	3464	3013	5555	4438	1757	1473	1957
MEAN	61.8	60.1	62.6	224	202	112	100	179	148	56.7	47.5	65.2
MAX	83	79	98	826	585	149	154	221	220	84	70	99
MIN	54	31	49	48	71	91	88	134	72	35	27	47
AC-FT	3800	3580	3850	13790	11620	6870	5980	11020	8800	3490	2920	3880

CAL YR 1979 TOTAL 26628 MEAN 73.0 MAX 292 MIN 26 AC-FT 52820
WTR YR 1980 TOTAL 40125 MEAN 110 MAX 826 MIN 27 AC-FT 79590

13075000 MARSH CREEK NEAR MCCAMMON, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT										
24...	1815	65	833	8.0	17.0	10.0	330	7	75	34
31...	1130	54	829	7.9	8.0	5.0	250	0	59	25
DEC										
11...	1150	56	852	--	6.0	1.0	--	--	--	--
17...	1520	60	782	8.3	12.0	3.0	--	--	--	--
FEB										
05...	1255	84	850	--	15.0	3.0	--	--	--	--
14...	1200	70	803	8.1	5.5	1.0	350	38	84	34
APR										
17...	1045	89	669	7.6	18.0	10.0	--	--	--	--
MAY										
16...	0910	174	665	7.9	7.5	13.5	330	78	85	28
JUN										
02...	1600	179	688	7.9	14.5	13.0	270	--	67	25
24...	1545	100	697	8.2	27.0	20.0	--	--	--	--
JUL										
13...	1550	55	735	8.4	28.0	21.5	300	25	69	32
17...	1230	34	723	--	27.0	20.0	--	--	--	--
AUG										
12...	1030	47	800	7.8	23.0	15.5	--	--	--	--
SEP										
12...	1140	87	886	--	23.0	14.0	--	--	--	--
18...	1440	75	839	8.3	29.0	14.5	--	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT									
24...	52	25	1.3	10	--	--	320	58	62
31...	38	24	1.0	6.2	410	0	340	57	61
DEC									
11...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	320	0	260	--	--
FEB									
05...	--	--	--	--	--	--	--	--	--
14...	51	24	1.2	7.7	380	0	310	51	66
APR									
17...	--	--	--	--	190	0	156	--	--
MAY									
16...	35	18	.8	7.8	--	--	250	29	53
JUN									
02...	35	21	.9	6.5	--	--	--	23	42
24...	--	--	--	--	340	0	279	--	--
JUL									
13...	45	24	1.1	9.4	330	5	280	42	52
17...	--	--	--	--	--	--	--	--	--
AUG									
12...	--	--	--	--	390	0	320	--	--
SEP									
12...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	420	0	344	--	--

13075000 MARSH CREEK NEAR MCCAMMON, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)
OCT									
24...	.3	38	526	.72	92.2	1.0	.090	--	--
31...	.2	30	479	.65	69.8	--	.060	15	2.2
DEC									
11...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	.070	22	3.6
FEB									
05...	--	--	--	--	--	--	--	--	--
14...	.3	35	516	.57	79.0	--	.100	36	6.8
APR									
17...	--	--	--	--	--	--	.630	581	140
MAY									
16...	.2	30	422	.57	198	.86	2.200	--	--
JUN									
02...	.1	23	--	--	--	--	1.800	573	277
24...	--	--	--	--	--	--	.160	50	13
JUL									
13...	.5	34	452	.61	67.1	--	.090	15	2.2
17...	--	--	--	--	--	--	--	--	--
AUG									
12...	--	--	--	--	--	--	.070	19	2.4
SEP									
12...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	.080	20	4.0

13075100 RAPID CREEK NEAR INKOM, ID

LOCATION.--Lat 42°48'02", long 112°13'46", in NW¼SW¼NE¼ sec. 22, T.7 S., R.36 E., Bannock County, Hydrologic Unit 17040208, on right bank at upstream side of bridge crossing Rapid Creek, 40 ft (12.19 m) downstream from Jackson Creek and 1.4 mi (2.25 km) east of Inkom, Idaho.

DRAINAGE AREA.--57.2 mi² (148 km²).

PERIOD OF RECORD.--October 1979 to September 1980.

GAGE.--Nonrecording gage, staff and crest-stage gage. Datum of gage is 4,620 ft (1,408 m), from topographic map.

REMARKS.--Records poor. Some diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 224 ft³/s (6.34 m³/s) May 10, 1980, gage height, 3.16 ft (0.963 m); minimum daily 3.7 ft³/s (0.10 m³/s) Oct. 7, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 224 ft³/s (6.34 m³/s) May 10, gage height, 3.16 ft (0.963 m); minimum daily 3.7 ft³/s (0.10 m³/s) Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	9.0	4.7	7.5	10	22	25	142	144	47	12	5.0
2	5.2	10	5.0	8.0	11	23	25	142	141	47	10	5.0
3	5.7	9.0	5.5	8.0	12	26	26	142	130	45	10	4.8
4	6.1	9.6	6.0	8.0	13	26	26	155	120	45	9.6	5.2
5	6.1	10	6.2	8.0	14	23	27	149	100	44	9.6	4.8
6	5.7	8.5	6.6	8.0	15	21	30	159	84	62	9.6	4.8
7	3.7	8.5	7.2	8.0	16	21	30	160	84	56	8.5	4.8
8	4.4	9.0	7.5	8.0	17	21	32	203	82	56	8.3	4.6
9	5.2	10	7.4	8.0	17	21	32	203	80	52	7.7	4.6
10	4.8	9.0	6.6	7.8	17	21	42	206	80	48	7.7	4.6
11	4.4	9.0	4.5	8.0	17	21	56	202	79	44	7.7	5.9
12	4.4	9.0	4.8	9.5	17	22	57	205	77	40	7.2	7.7
13	4.4	9.0	5.8	15	17	23	64	187	76	36	7.7	7.7
14	4.4	9.6	6.3	25	17	23	69	187	76	32	7.5	7.7
15	6.1	9.6	6.8	34	17	23	69	169	73	24	7.5	7.0
16	5.7	9.0	7.0	33	18	23	70	162	73	24	7.0	6.7
17	5.2	9.0	7.2	33	18	22	70	159	72	23	7.0	6.7
18	6.5	9.0	7.4	30	18	22	105	149	72	23	6.5	6.5
19	7.0	9.6	7.4	22	19	22	105	154	70	23	6.7	6.5
20	7.5	9.6	7.4	20	20	22	90	149	68	21	6.7	6.3
21	8.0	9.6	7.4	16	24	22	105	151	66	21	6.3	6.3
22	7.5	8.0	7.2	14	27	22	105	151	64	20	6.3	5.9
23	7.5	8.5	7.2	13	21	22	134	146	62	15	6.3	5.4
24	7.5	9.0	7.2	12	20	22	149	148	60	14	6.1	5.4
25	8.0	9.2	7.0	11	20	22	149	144	62	14	6.1	5.2
26	8.0	9.2	6.8	10	19	23	136	148	59	14	5.7	5.2
27	8.5	8.5	6.8	9.0	19	23	139	149	56	13	6.1	5.2
28	9.6	6.0	6.8	8.5	21	24	144	148	52	13	5.7	5.2
29	10	4.5	6.8	8.4	22	25	146	146	49	12	5.4	4.8
30	8.5	4.4	6.8	8.6	---	26	146	148	49	12	5.4	4.6
31	8.5	---	7.0	9.2	---	26	---	149	---	12	5.4	---
TOTAL	199.3	261.9	204.3	428.5	513	705	2405	5012	2360	952	229.3	170.1
MEAN	6.43	8.73	6.59	13.8	17.7	22.7	80.2	162	78.7	30.7	7.40	5.67
MAX	10	10	7.5	34	27	26	149	206	144	62	12	7.7
MIN	3.7	4.4	4.5	7.5	10	21	25	142	49	12	5.4	4.6
AC-FT	395	519	405	850	1020	1400	4770	9940	4680	1890	455	337

WTR YR 1980 TOTAL 13440.4 MEAN 36.7 MAX 206 MIN 3.7 AC-FT 26660

13075500 PORTNEUF RIVER AT POCATELLO, ID

LOCATION.--Lat 42°52'20", long 112°28'05", in SE¼NW¼ sec.27, T.6 S., R.34 E., Bannock County, Hydrologic Unit 17040208, on left bank 1,400 ft (430 m) downstream from Carson Street Bridge, at Pocatello, 1.2 mi (1.9 km) upstream from Pocatello Creek and at mile 16.8 (27.0 km).
DRAINAGE AREA.--1,250 mi^2 (3,240 km^2), approximately. Mean altitude, 5,850 ft (1,780 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May to September 1897, March 1898 to October 1899, August 1911 to current year.
REVISED RECORDS.--WSP 1567: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 4,418.41 ft (1,346.731 m) National Geodetic Vertical Datum of 1929 (U.S. Corps of Engineers datum). May 18, 1897, to Oct. 14, 1899, nonrecording gage at site 1.6 mi (2.6 km) upstream at different datum. Aug. 31, 1911, to May 13, 1927, and Oct. 13, 1927, to June 13, 1928, nonrecording gage 0.3 mi (0.5 km) upstream at different datum. May 14 to Oct. 12, 1927, water-stage recorder near present site at different datum. June 14, 1928, to Sept. 28, 1950, water-stage recorder near Carson Street Bridge, 0.3 mi (0.5 km) upstream at same datum as former nonrecording gages at this site. Sept. 29, 1950, to May 20, 1968, water-stage recorder at Fremont Street site, 1.0 mi (1.6 km) upstream at datum 18.57 ft (5.660 m) higher.
REMARKS.--Records good except those below 30 ft^3/s (0.85 m^3/s), which are poor. Flow regulated by Portneuf Reservoir formed by earth dam completed in 1912 and raised 7 ft (2.1 m) in 1950, capacity, 23,695 acre-ft (29.2 hm^3); 16,410 acre-ft (20.2 hm^3) prior to 1950, and Chesterfield Reservoir, capacity, 685 acre-ft (0.845 hm^3). Diversions above station for irrigation of about 55,000 acres (22,000 hm^2) of which about 13,000 acres (5,300 hm^2) are by withdrawals from ground water (1966 determination).
AVERAGE DISCHARGE.--67 years (1913-16, 1918-80), 268 ft^3/s (7.590 m^3/s), 194,200 acre-ft/yr (239 hm^3/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft^3/s (84.7 m^3/s) Feb. 14, 1962, gage height, 11.35 ft (3.459 m); minimum daily, 0.23 ft^3/s (0.007 m^3/s) July 19, 1979.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft^3/s (33.7 m^3/s) Feb. 22, gage height, 8.27 ft (2.521 m); maximum recorded gage height, 11.49 ft (3.502 m) Feb. 1 (backwater from ice); minimum discharge, 32 ft^3/s (0.906 m^3/s) July 31, gage height, 2.01 ft (0.613 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	167	175	180	235	549	353	889	910	172	35	83
2	82	148	180	195	240	509	351	847	955	191	37	86
3	74	174	180	200	245	487	345	790	958	178	39	82
4	73	198	175	200	260	487	345	774	947	178	53	81
5	70	207	178	201	297	491	353	767	919	235	64	80
6	71	209	185	200	274	489	384	749	913	167	60	79
7	69	200	190	196	278	464	392	790	921	158	58	89
8	69	200	209	200	272	432	359	836	888	155	58	97
9	69	201	213	200	262	407	371	865	834	146	55	95
10	68	198	219	192	254	394	369	883	791	140	55	91
11	70	194	213	185	252	411	367	895	746	122	55	102
12	68	196	188	250	252	453	367	922	718	103	56	105
13	69	190	194	635	252	419	374	938	685	105	56	120
14	70	190	194	895	256	392	396	945	651	107	65	131
15	73	187	188	1060	274	396	430	913	622	106	73	131
16	85	187	190	1100	351	370	458	931	596	100	79	125
17	83	188	192	1010	421	359	481	970	565	95	83	123
18	85	203	192	897	619	363	526	989	522	88	87	122
19	98	219	192	706	952	355	570	986	425	85	94	126
20	113	205	192	627	1120	353	627	968	361	80	87	129
21	141	192	194	540	1180	369	704	950	323	79	85	132
22	156	194	200	480	1170	380	757	934	291	74	82	133
23	168	187	201	420	1050	365	810	930	288	76	82	134
24	165	194	198	370	853	365	851	969	303	74	82	137
25	165	190	200	320	698	361	857	995	282	73	81	139
26	172	179	201	290	599	351	849	1010	256	69	93	145
27	168	175	196	265	564	349	836	985	209	71	93	157
28	176	170	177	250	562	351	824	942	200	71	90	157
29	172	165	170	230	551	334	820	901	189	68	94	161
30	174	170	165	230	---	355	865	903	178	44	87	146
31	179	---	170	230	---	365	---	910	---	33	85	---
TOTAL	3396	5677	5911	12954	14593	12525	16391	28076	17446	3443	2203	3518
MEAN	110	189	191	418	503	404	546	906	582	111	71.1	117
MAX	179	219	219	1100	1180	549	865	1010	958	235	94	161
MIN	68	148	165	180	235	334	345	749	178	33	35	79
AC-FT	6740	11260	11720	25690	28950	24840	32510	55690	34600	6830	4370	6980

CAL YR 1979 TOTAL 75999.74 MEAN 208 MAX 554 MIN .23 AC-FT 150700
WTR YR 1980 TOTAL 126133.00 MEAN 345 MAX 1180 MIN 33 AC-FT 250200

13075500 PORTNEUF RIVER AT POCATELLO, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1968-69.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT 25...	1345	164	753	8.5	20.0	10.0	310	8	69
DEC 13...	1010	114	681	--	.0	.5	--	--	--
FEB 05...	0950	275	721	--	9.0	3.0	--	--	--
MAR 24...	0950	361	530	--	6.0	7.0	--	--	--
MAY 12...	1150	915	457	8.1	15.0	9.0	220	46	57
JUL 14...	1030	110	315	--	28.5	19.5	--	--	--
SEP 22...	0930	134	792	--	16.5	15.0	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT 25...	33	40	21	1.0	9.2	300	48	47	.2
DEC 13...	--	--	--	--	--	--	--	--	--
FEB 05...	--	--	--	--	--	--	--	--	--
MAR 24...	--	--	--	--	--	--	--	--	--
MAY 12...	18	17	14	.5	4.7	170	52	20	.1
JUL 14...	--	--	--	--	--	--	--	--	--
SEP 22...	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT 25...	29	459	.62	203	.68	.060	--	--
DEC 13...	--	--	--	--	--	--	--	--
FEB 05...	--	--	--	--	--	--	--	--
MAR 24...	--	--	--	--	--	--	--	--
MAY 12...	19	297	.40	734	1.5	.810	589	1460
JUL 14...	--	--	--	--	--	--	--	--
SEP 22...	--	--	--	--	--	--	--	--

13075900 FORT HALL MICHAUD CANAL NEAR POCATELLO, ID

LOCATION.--Lat 42°56'10", long 112°32'45", in SE¼SW¼ sec.36, T.5 S., R.33 E., Power County, Hydrologic Unit 7040208, Fort Hall Indian Reservation, 5 mi (8 km) downstream from Pocatello Creek and 6 mi (10 km) northwest of Pocatello.

PERIOD OF RECORD.--April 1964 to current year.

GAGE.--Sparling meters at pumping plant.

REMARKS.--Records good. First diversion to this project started April 1964. Flow controlled by pumping plant which lifts water 90 ft (27 m) for irrigation of 8,690 acres (3,520 hm²) of land in Bureau of Indian Affairs project. Sparling meters rated by current-meter measurements.

COOPERATION.--Sparling-meter readings furnished by Bureau of Indian Affairs.

AVERAGE DISCHARGE.--17 years, 40.6 ft^3/s (1.150 m^3/s), 29,410 acre-ft/yr (36.3 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 224 ft^3/s (6.34 m^3/s) July 14, 1969; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	.00	.00	.00	.00	.00	.00	.00	.00	198	147	73
2	81	.00	.00	.00	.00	.00	.00	.00	.00	192	97	72
3	79	.00	.00	.00	.00	.00	.00	.00	.00	192	99	68
4	76	.00	.00	.00	.00	.00	.00	.00	.00	191	101	71
5	76	.00	.00	.00	.00	.00	.00	.00	.00	194	104	71
6	76	.00	.00	.00	.00	.00	.00	.00	.00	191	104	71
7	59	.00	.00	.00	.00	.00	.00	.00	.00	190	111	71
8	52	.00	.00	.00	.00	.00	.00	.00	.00	189	109	76
9	52	.00	.00	.00	.00	.00	.00	.00	.00	185	104	76
10	59	.00	.00	.00	.00	.00	.00	.00	.00	186	104	55
11	58	.00	.00	.00	.00	.00	.00	.00	101	182	104	58
12	19	.00	.00	.00	.00	.00	.00	.00	101	182	92	54
13	.00	.00	.00	.00	.00	.00	.00	.00	101	184	87	54
14	.00	.00	.00	.00	.00	.00	.00	.00	67	179	90	55
15	.00	.00	.00	.00	.00	.00	.00	.00	101	173	89	54
16	.00	.00	.00	.00	.00	.00	.00	.00	106	176	90	50
17	.00	.00	.00	.00	.00	.00	.00	.00	200	176	48	50
18	.00	.00	.00	.00	.00	.00	.00	.00	202	201	74	50
19	.00	.00	.00	.00	.00	.00	.00	.00	194	203	65	54
20	.00	.00	.00	.00	.00	.00	.00	.00	200	204	64	54
21	.00	.00	.00	.00	.00	.00	.00	.00	199	203	64	54
22	.00	.00	.00	.00	.00	.00	.00	.00	199	204	70	53
23	.00	.00	.00	.00	.00	.00	.00	.00	202	202	71	53
24	.00	.00	.00	.00	.00	.00	.00	.00	178	201	71	53
25	.00	.00	.00	.00	.00	.00	.00	.00	176	204	71	19
26	.00	.00	.00	.00	.00	.00	.00	.00	180	204	68	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	180	202	71	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	180	201	73	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	180	165	74	.00
30	.00	.00	.00	.00	---	.00	.00	.00	185	184	74	.00
31	.00	---	.00	.00	---	.00	---	.00	---	164	74	---
TOTAL	749.00	.00	.00	.00	.00	.00	.00	.00	3232.00	5903	2664	1469.00
MEAN	24.2	.000	.000	.000	.000	.000	.000	.000	108	190	85.9	49.0
MAX	81	.00	.00	.00	.00	.00	.00	.00	202	204	147	76
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	164	48	.00
AC-FT	1490	.00	.00	.00	.00	.00	.00	.00	6410	11710	5280	2910

CAL YR 1979 TOTAL 17804.00 MEAN 48.8 MAX 200 MIN .00 AC-FT 35310
WTR YR 1980 TOTAL 14017.00 MEAN 38.3 MAX 204 MIN .00 AC-FT 27800

13076400 MICHAUD CANAL AT AMERICAN FALLS, ID

LOCATION.--Lat 42°46'45", long 112°52'20", in SE¼SE¼ sec.30, T.7 S., R.31 E., Power County, Hydrologic Unit 17040209, 800 ft (244 m) downstream from American Falls Dam at American Falls.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Sparling meter in pipeline at pumping plant.

REMARKS.--Records good. Flow controlled by pumping plant which lifts water from American Falls Reservoir to point in NE¼ sec.32. Project irrigated 7,450 acres (3,020 hm^2) from this canal and 3,440 acres (1,390 hm^2) by pumping from ground water in 1978.

COOPERATION.--Record of pump operation furnished by Falls Irrigation District.

AVERAGE DISCHARGE.--23 years, 30.8 ft^3/s (0.872 m^3/s), 22,310 acre-ft/yr (27.5 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 165 ft^3/s (4.673 m^3/s) June 27 to July 2, 1980; no flow for many days each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	.00	.00	.00	.00	.00	.00	53	41	165	103	62
2	25	.00	.00	.00	.00	.00	.00	53	41	165	96	62
3	25	.00	.00	.00	.00	.00	.00	72	41	149	96	62
4	25	.00	.00	.00	.00	.00	.00	72	37	109	75	62
5	25	.00	.00	.00	.00	.00	.00	72	16	95	75	62
6	25	.00	.00	.00	.00	.00	.00	72	16	95	75	62
7	25	.00	.00	.00	.00	.00	.00	72	10	137	75	62
8	25	.00	.00	.00	.00	.00	.00	51	.00	150	75	62
9	34	.00	.00	.00	.00	.00	.00	52	.00	150	75	62
10	34	.00	.00	.00	.00	.00	.00	43	33	150	75	62
11	34	.00	.00	.00	.00	.00	.00	43	60	150	75	47
12	34	.00	.00	.00	.00	.00	.00	43	97	137	75	47
13	34	.00	.00	.00	.00	.00	.00	43	97	137	75	42
14	34	.00	.00	.00	.00	.00	.00	42	113	136	75	42
15	21	.00	.00	.00	.00	.00	.00	18	113	136	75	42
16	.00	.00	.00	.00	.00	.00	.00	11	113	136	52	20
17	.00	.00	.00	.00	.00	.00	.00	.00	113	136	52	20
18	.00	.00	.00	.00	.00	.00	.00	.00	119	150	52	20
19	.00	.00	.00	.00	.00	.00	.00	.00	119	150	46	20
20	.00	.00	.00	.00	.00	.00	.00	.00	144	150	46	20
21	.00	.00	.00	.00	.00	.00	.00	.00	144	136	46	20
22	.00	.00	.00	.00	.00	.00	.00	.00	144	136	46	41
23	.00	.00	.00	.00	.00	.00	44	12	144	136	46	41
24	.00	.00	.00	.00	.00	.00	53	.00	160	123	46	41
25	.00	.00	.00	.00	.00	.00	53	.00	160	123	46	41
26	.00	.00	.00	.00	.00	.00	53	.00	162	123	64	41
27	.00	.00	.00	.00	.00	.00	53	.00	165	125	64	41
28	.00	.00	.00	.00	.00	.00	53	.00	165	125	64	41
29	.00	.00	.00	.00	.00	.00	53	.00	165	125	64	51
30	.00	.00	.00	.00	---	.00	53	.00	165	103	88	51
31	.00	---	.00	.00	---	.00	---	34	---	103	88	---
TOTAL	425.00	.00	.00	.00	.00	.00	415.00	858.00	2897.00	4141	2105	1349
MEAN	13.7	.000	.000	.000	.000	.000	13.8	27.7	96.6	134	67.9	45.0
MAX	34	.00	.00	.00	.00	.00	53	72	165	165	103	62
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	95	46	20
AC-FT	843	.00	.00	.00	.00	.00	823	1700	5750	8210	4180	2680

CAL YR 1979 TOTAL 15044.00 MEAN 41.2 MAX 162 MIN .00 AC-FT 29840
WTR YR 1980 TOTAL 12190.00 MEAN 33.3 MAX 165 MIN .00 AC-FT 24180

13077000 SNAKE RIVER AT NEELEY, ID

LOCATION.--Lat 42°46'06", long 112°52'42", in NE¼SW¼ sec.31, T.7 S., R.31 E., Power County, Hydrologic Unit 17040209, on right bank 400 ft (122 m) upstream from fish hatchery buildings, 0.9 mi (1.4 km) downstream from American Falls Dam, at mile 713.8 (1,148.5 km). Records computed to show flow at former site in sec.11, T.8 S., R.30 E., 0.5 mi (0.8 km) north of Neeley and 2.5 mi (4.0 km) downstream from present site, by adding inflow between sites. Water-quality sampling site 300 ft (91 m) downstream.

DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately, excluding indeterminate nontributary area on Snake River Plain.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1906 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1317: 1910.

GAGE.--Water-stage recorder. Datum of gage is 4,241.6 ft (1,292.840 m) National Geodetic Vertical Datum of 1929 (levels by Water and Power Resources Service). Prior to Aug. 8, 1910, nonrecording gage, and Aug. 8, 1910, to June 6, 1930, water-stage recorder at site 2.5 mi (4.0 km) downstream at different datum. June 7, 1930, to Mar. 19, 1945, water-stage recorder at site 0.4 mi (0.6 km) upstream at datum 0.4 ft (0.12 m) higher.

REMARKS.--Records good. Flow regulated by American Falls Reservoir (sta 13076500) and other reservoirs, having a combined usable capacity of 4,600,000 acre-ft (5,670 hm^3). Diversions above station for irrigation of about 1,080,000 acres (437,000 hm^2) of which about 228,000 acres (92,000 hm^2) are by withdrawals from ground water (1966 determination). Considerable water leaks into the Snake Plain aquifer above the station some of which returns above American Falls Reservoir.

AVERAGE DISCHARGE.--54 years (1927-80), 7,168 ft^3/s (203.0 m^3/s), 5,193,000 acre-ft/yr (6,403 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 48,400 ft^3/s (1,370 m^3/s) June 20, 1918, gage height, 13.5 ft (4.11 m), site and datum then in use; minimum, 50 ft^3/s (1.42 m^3/s) Oct. 22, 23, Nov. 14-16, 1941, Oct. 29, 1961, Nov. 6, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,700 ft^3/s (700 m^3/s) June 8, 9; maximum gage height, 8.90 ft (2.713 m) June 9; minimum, 286 ft^3/s (8.10 m^3/s) Nov. 1, gage height, 1.99 ft (0.607 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3700	900	500	388	397	1190	1480	13400	21500	12600	11300	10200
2	3360	940	490	393	397	1190	2100	12900	22000	12500	11400	10000
3	2860	950	495	393	397	1180	2800	11900	22600	11500	11500	9960
4	2620	970	510	393	397	1190	6110	11600	23500	10700	11500	9870
5	2080	950	505	397	411	1210	8260	11600	24000	10400	11400	9630
6	1510	940	500	393	442	1180	8260	12200	24500	10700	11400	9610
7	1260	850	490	388	406	1180	8260	12600	24500	10900	11600	9420
8	2030	710	495	397	402	1170	8620	12200	24500	11500	11700	9200
9	2680	615	495	411	402	1180	8310	12000	24500	11700	11800	8780
10	2650	628	490	420	402	1190	6960	12400	21400	11900	11900	8570
11	2230	610	485	406	402	1160	6840	13600	18600	12200	11900	7980
12	1520	610	900	420	411	1180	6800	15000	17300	12500	11900	6630
13	1280	550	505	384	402	1190	6800	16400	14300	12600	11900	5680
14	1290	540	540	388	406	1200	6070	16800	13100	12500	11900	5330
15	1320	520	490	388	406	1200	5230	16600	13600	12300	11700	5510
16	1110	520	500	384	402	1190	5060	15700	14600	11900	11500	5540
17	970	510	510	397	406	1190	5060	14400	15300	11700	11400	5520
18	1160	510	495	384	402	1190	5030	13800	16200	11800	11300	5600
19	1230	505	456	384	393	1200	5400	13800	16200	11500	10700	5560
20	1230	490	451	384	402	1210	5610	13700	13800	11700	10400	5580
21	1340	490	447	384	420	1210	6800	14100	12300	11600	10200	6020
22	1620	510	447	384	424	1210	7790	14600	12300	11400	9790	6290
23	1590	510	447	429	406	1180	7840	14900	12300	11300	9600	6260
24	1380	510	442	442	402	1180	7780	15500	12200	11300	10100	6050
25	1090	505	442	424	402	1180	7960	16000	12200	11400	10100	5860
26	960	505	451	429	402	1180	9550	17100	12000	11500	10900	5640
27	920	490	456	447	402	1220	10400	18800	12700	11100	11300	5550
28	920	495	438	456	402	1190	11200	19600	12800	11600	11400	5520
29	910	495	438	433	900	1190	15100	19800	12900	11700	11300	5500
30	910	500	442	397	---	1190	15200	20800	12900	11600	11200	5510
31	1030	---	366	397	---	1170	---	21400	---	11300	10700	---
TOTAL	50760	18828	15118	12514	12245	36870	218680	465200	510600	360900	346690	212370
MEAN	1637	628	488	404	422	1189	7289	15010	17020	11640	11180	7079
MAX	3700	970	900	456	900	1220	15200	21400	24500	12600	11900	10200
MIN	910	490	366	384	393	1160	1480	11600	12000	10400	9600	5330
AC-FT	100700	37350	29990	24820	24290	73130	433800	922700	1013000	715800	687700	421200

CAL YR 1979 TOTAL 2629126 MEAN 7203 MAX 14000 MIN 366 AC-FT 5215000
WTR YR 1980 TOTAL 2260775 MEAN 6177 MAX 24500 MIN 366 AC-FT 4484000

13077000 SNAKE RIVER AT NEELEY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-71, 1973 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1977 to September 1979 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT									
23...	1230	1550	527	8.5	9.5	10.5	12.4	132	58
NOV									
27...	1515	454	804	8.5	-4.0	1.5	12.6	105	K11
DEC									
18...	1350	510	503	7.7	2.0	1.0	--	--	K24
JAN									
24...	0950	488	530	8.6	7.0	1.0	11.9	98	K250
FEB									
26...	1242	402	538	8.0	10.5	4.0	--	--	K580
APR									
22...	1552	7910	443	8.2	19.0	8.0	11.5	114	97
MAY									
28...	1311	20000	220	8.4	16.5	12.5	8.7	96	52
JUN									
27...	1552	12200	398	7.9	21.0	14.5	6.2	144	K22
JUL									
29...	1432	11900	360	7.8	23.5	20.5	--	--	25
AUG									
25...	1452	10000	377	7.3	22.0	18.5	7.7	99	K24
SEP									
24...	1256	5750	397	8.7	21.5	15.5	8.7	104	K12

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT									
23...	7	.71	.35	.74	1.5	6.4	.47	.100	.31
NOV									
27...	7	.42	.87	.90	1.3	5.8	.04	.060	.18
DEC									
18...	13	.71	.64	.68	1.4	6.2	.05	.070	.21
JAN									
24...	13	.61	.69	.81	1.4	6.3	.15	.070	.21
FEB									
26...	11	.51	.27	.66	1.2	5.2	.47	.090	.28
APR									
22...	42	.12	.85	1.0	1.1	5.0	.18	.010	.03
MAY									
28...	18	.02	.63	.76	.78	3.5	.16	.070	.21
JUN									
27...	0	.00	.31	.50	.50	2.2	.23	.080	.25
JUL									
29...	3	.05	2.4	2.4	2.5	11	.00	.070	.21
AUG									
25...	15	.01	.63	.90	.91	4.0	--	.070	.21
SEP									
24...	19	.08	.69	.76	.84	3.7	.08	.090	.28

K Results based on counts outside ideal colony count range.

13077000 SNAKE RIVER AT NEELEY, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
DEC								
18...	2	1	0	5	150	12	.0	0
JUN								
27...	3	1	--	50	210	9	.0	90
SEP								
24...	3	0	4	4	440	0	.0	30

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)
JUN							
27...	<2.2	<3.3	<.3	4.1	3.9	.8	.8
SEP							
24...	3.0	4.4	.3	4.7	4.4	.6	.7

13077600 EAST FORK ROCK CREEK NEAR ROCKLAND, ID

LOCATION.--Lat 42°33'40", long 112°47'20", in SW¼SW¼ sec.12, T.10 S., R.31 E., Power County, Hydrologic Unit 17040209, on right bank 0.3 mi (0.5 km) upstream from Bench ditch diversion and 4.5 mi (7.2 km) southeast of Rockland.

DRAINAGE AREA.--13.7 mi^2 (35.5 km^2).

PERIOD OF RECORD.--September 1960 to September 1964, October 1978 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 5,030 ft (1,530 m), from topographic map.

REMARKS.--Records good except those for January, which are fair. No diversions above station; many ranch diversions downstream for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43 ft^3/s (1.22 m^3/s) June 12, 1964, gage height, 2.34 ft (0.713 m); minimum daily, 11 ft^3/s (0.312 m^3/s) for many days in 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft^3/s (0.708 m^3/s) Sept. 11, gage height, 1.77 ft (0.540 m); minimum daily, 15 ft^3/s (0.425 m^3/s) Oct. 21-25; minimum gage height, 1.46 ft (0.445 m) Dec. 21-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	17	16	17	17	17	18	19	22	24	24
2	16	16	17	16	17	17	17	18	20	22	24	24
3	16	16	17	16	17	17	17	18	20	22	24	24
4	16	16	17	16	17	17	17	18	19	22	24	24
5	16	16	17	16	17	17	17	18	19	22	24	24
6	16	16	17	16	17	17	17	18	20	23	24	24
7	16	16	17	16	17	17	17	18	20	23	24	24
8	16	16	17	16	17	17	17	18	20	23	24	24
9	16	16	17	16	17	17	17	18	20	23	24	24
10	16	16	17	16	17	17	17	18	20	23	24	24
11	16	16	17	16	17	17	17	18	20	23	24	24
12	16	17	17	16	17	17	17	18	20	23	23	24
13	16	17	17	16	17	17	17	18	20	23	23	24
14	16	17	17	16	17	17	17	18	20	23	23	24
15	16	17	17	16	17	17	17	18	20	23	23	24
16	16	17	17	16	17	17	17	19	20	23	23	24
17	16	17	17	17	17	17	17	19	21	23	23	24
18	16	17	17	17	19	17	17	18	21	24	23	24
19	16	17	17	17	18	17	18	18	21	24	24	24
20	16	17	17	17	18	17	17	18	21	24	24	24
21	15	17	16	17	17	17	17	18	21	24	24	24
22	15	17	16	17	17	17	17	18	21	24	24	24
23	15	17	16	17	17	17	17	19	21	24	24	24
24	15	17	16	17	17	17	17	19	21	24	24	24
25	15	17	16	17	17	17	17	19	21	24	24	23
26	16	17	16	17	17	17	17	19	21	24	24	23
27	16	17	16	17	17	17	18	19	21	24	24	23
28	16	17	16	17	17	17	18	19	22	24	24	23
29	16	17	16	17	17	17	18	19	22	24	24	23
30	16	17	16	17	---	17	18	19	22	24	24	23
31	16	---	16	17	---	17	---	19	---	24	24	---
TOTAL	491	499	516	511	497	527	515	569	614	722	737	714
MEAN	15.8	16.6	16.6	16.5	17.1	17.0	17.2	18.4	20.5	23.3	23.8	23.8
MAX	16	17	17	17	19	17	18	19	22	24	24	24
MIN	15	16	16	16	17	17	17	18	19	22	23	23
AC-FT	974	990	1020	1010	986	1050	1020	1130	1220	1430	1460	1420

CAL YR 1979 TOTAL 6210 MEAN 17.0 MAX 19 MIN 15 AC-FT 12320
WTR YR 1980 TOTAL 6912 MEAN 18.9 MAX 24 MIN 15 AC-FT 13710

NOTE.--No gage-height record Dec. 25 to Jan. 21.

13077650 ROCK CREEK NEAR AMERICAN FALLS, ID

LOCATION.--Lat 42°39'10", long 113°00'57", in NE¼SW¼ sec.12, T.9 S., R.29 E., Power County, Hydrologic Unit 17040209, on left bank 200 ft (61 m) east of Register Rock historical site, 600 ft (183 m) downstream from Interstate Highway 86, 0.3 mi (0.48 km) upstream from Snake River, and 12 mi (19.3 km) southwest of American Falls.

DRAINAGE AREA.--320 mi² (829 km²).

PERIOD OF RECORD.--October 1978 to September 1980 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 4,220 ft (1,286 m), from topographic map.

REMARKS.--Records good except those for the winter period, which are fair. Many small diversions above station for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 7,950 ft³/s (225 m³/s) Dec. 23, 1964, on basis of contracted opening survey.

WATER YEAR 1979.--Maximum discharge 1,490 ft³/s (41.9 m³/s) July 22, gage height, 7.66 ft (2.335 m); minimum 0.10 ft³/s (0.003 m³/s) July 21, 22, gage height, 3.33 ft (1.015 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge 3,990 ft³/s (113 m³/s), Jan. 13, gage height, 8.80 ft (2.682 m), on basis of slope area measurement; minimum daily, 0.05 ft³/s (0.0014 m³/s) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	15	35	44	47	57	47	24	1.4	1.6	.78	8.2
2	6.5	18	37	44	48	58	47	23	.99	2.6	.99	8.2
3	7.1	19	40	44	46	54	47	25	.92	2.9	1.1	9.2
4	6.6	21	40	43	41	54	45	21	.92	2.1	1.1	9.0
5	6.1	24	39	40	37	58	47	21	.78	1.4	.71	9.0
6	6.4	26	38	36	34	64	49	21	.45	.92	.85	5.5
7	6.8	27	37	37	38	255	52	20	.40	1.4	29	3.8
8	6.4	29	37	38	39	246	47	22	.92	.85	47	3.4
9	6.6	32	39	39	35	92	46	20	.99	1.3	38	3.4
10	6.6	30	40	38	32	79	46	16	.57	.85	15	2.3
11	5.9	32	37	36	33	75	43	16	.45	.71	4.4	2.0
12	6.8	32	39	45	35	83	42	14	.45	.57	4.4	2.1
13	8.2	32	42	48	38	79	43	8.4	.57	1.3	5.7	1.5
14	8.2	41	45	50	42	77	42	7.1	.45	1.3	7.3	2.9
15	8.2	38	49	51	45	75	42	5.5	.30	.85	14	3.1
16	7.6	49	55	50	49	77	42	5.3	.78	.57	26	3.5
17	7.6	39	66	49	56	68	40	5.0	.99	.40	22	3.8
18	7.6	39	52	48	56	59	39	4.4	1.4	.30	47	3.4
19	6.4	40	50	43	55	57	40	2.6	1.6	.25	38	3.2
20	9.0	42	48	41	51	56	39	2.2	1.3	.25	33	2.9
21	9.5	44	48	43	50	56	38	2.0	1.3	.15	27	3.4
22	10	40	49	45	49	55	37	2.0	1.3	173	19	3.4
23	9.0	40	50	44	49	55	35	1.9	1.3	60	17	2.5
24	9.5	40	50	42	49	56	34	1.9	1.5	13	14	2.6
25	8.7	40	51	39	51	58	32	3.1	2.1	3.1	14	2.6
26	8.7	39	49	37	52	56	32	3.2	2.3	1.1	11	2.6
27	9.5	38	45	34	57	56	32	1.7	2.0	.64	11	2.5
28	11	35	36	33	56	56	32	1.4	1.9	.40	8.7	2.9
29	13	35	38	37	---	55	31	1.5	1.8	.35	8.4	2.7
30	15	35	41	40	---	50	28	2.3	2.0	.35	8.2	2.5
31	16	---	43	45	---	49	---	2.2	---	.45	8.7	---
TOTAL	261.0	1011	1365	1303	1270	2345	1216	306.7	34.13	274.96	483.33	118.1
MEAN	8.42	33.7	44.0	42.0	45.4	75.6	40.5	9.89	1.14	8.87	15.6	3.94
MAX	16	49	66	51	57	255	52	25	2.3	173	47	9.2
MIN	5.9	15	35	33	32	49	28	1.4	.30	.15	.71	1.5
AC-FT	518	2010	2710	2580	2520	4650	2410	608	68	545	959	234

WTR YR 1979 TOTAL 9988.22 MEAN 27.4 MAX 255 MIN .15 AC-FT 19810

13077650 ROCK CREEK NEAR AMERICAN FALLS, ID--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	25	30	32	42	53	22	11	26	2.4	.78	5.5
2	2.1	31	30	32	43	51	22	8.7	65	2.3	.40	4.4
3	2.4	33	31	32	42	49	21	10	53	3.5	.05	4.4
4	2.6	34	32	32	41	51	21	10	49	9.0	1.1	6.1
5	2.1	32	35	32	41	48	20	6.8	40	7.1	.85	6.8
6	1.9	31	35	32	41	46	19	4.3	39	3.5	.57	4.6
7	1.5	32	34	31	41	43	19	5.7	39	4.0	.15	13
8	1.3	32	35	32	42	42	19	8.9	37	4.4	.05	15
9	2.7	34	35	32	42	41	18	27	36	5.0	.25	7.3
10	2.4	34	34	33	40	40	17	23	36	3.5	.30	5.9
11	2.8	35	33	31	39	40	17	36	36	3.1	.57	6.8
12	4.6	34	31	85	38	40	16	31	32	1.5	.71	11
13	6.4	35	30	1760	38	39	15	25	31	.99	.40	20
14	6.6	35	31	1430	62	39	15	23	29	2.2	.45	14
15	5.9	34	32	259	396	38	15	20	30	2.5	1.2	12
16	5.9	35	32	115	336	34	15	32	29	2.8	2.1	11
17	7.1	34	32	79	328	32	15	34	24	2.7	1.9	11
18	7.1	37	32	65	992	30	15	30	23	2.6	2.5	12
19	7.3	32	32	62	404	28	15	26	20	2.7	3.0	12
20	7.6	32	32	77	404	27	15	21	13	2.0	2.7	12
21	6.8	30	32	50	123	27	16	16	13	2.2	2.9	14
22	7.6	28	33	48	81	26	16	17	9.5	2.2	2.9	21
23	12	30	32	46	70	25	16	17	7.3	1.7	2.8	23
24	14	32	32	45	55	25	16	24	2.9	1.8	5.3	24
25	16	31	32	44	58	25	13	27	2.9	1.2	3.2	26
26	16	31	32	41	66	24	10	31	1.3	.85	2.2	27
27	16	30	31	38	75	23	10	27	2.2	1.4	2.4	26
28	15	30	31	35	80	23	13	26	2.6	1.5	2.0	23
29	15	30	29	36	60	22	14	24	2.7	1.1	1.9	28
30	16	30	28	38	---	22	14	25	1.9	1.4	2.2	26
31	22	---	30	40	---	22	---	25	---	.92	2.8	---
TOTAL	239.1	963	990	4744	4120	1075	489	652.4	733.3	84.06	50.63	432.8
MEAN	7.71	32.1	31.9	153	142	34.7	16.3	21.0	24.4	2.71	1.63	14.4
MAX	22	37	35	1760	992	53	22	36	65	9.0	5.3	28
MIN	1.3	25	28	31	38	22	10	4.3	1.3	.85	.05	4.4
AC-FT	474	1910	1960	9410	8170	2130	970	1290	1450	167	100	858

CAL YR 1979 TOTAL 9543.32 MEAN 26.1 MAX 255 MIN .15 AC-FT 18930
WTR YR 1980 TOTAL 14573.29 MEAN 39.8 MAX 1760 MIN .05 AC-FT 28910

NOTE.--No gage-height record Mar. 17 to Apr. 23.

13077700 GEORGE CREEK NEAR YOST, UT

LOCATION.--Lat 41°55'07", long 113°28'51", in SE1/4SW1/4SW1/4 sec.20, T.14 N., R.14 W., Box Elder County, Hydrologic Unit 17040201, on right bank 1,000 ft (305 m) upstream from section corner and boundary of Sawtooth National Forest, 4.5 mi (7.2 km) southeast of Yost, 5 mi (8 km) south of Utah-Idaho State line, and 16 mi (26 km) southwest of Strevell, Idaho.

DRAINAGE AREA.--7.84 mi^2 (20.31 km^2).

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 7,000 ft (2,134 m) from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--21 years, 7.67 ft^3/s (0.217 m^3/s), 5,560 acre-ft/yr (6.86 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 146 ft^3/s (4.13 m^3/s) June 10, 1963, gage height, 1.96 ft (0.597 m); minimum, 1.0 ft^3/s (0.03 m^3/s) July 14, 15, 16, 17, 18, 19, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 124 ft^3/s (3.51 m^3/s) May 23, gage height, 1.66 ft (0.506 m); minimum, 1.4 ft^3/s (0.040 m^3/s) Jan. 2-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.7	1.7	1.5	1.5	1.6	1.7	29	39	53	9.7	5.2
2	2.0	1.7	1.7	1.5	1.5	1.6	1.7	34	46	51	9.1	4.8
3	2.0	1.8	1.7	1.4	1.5	1.6	1.7	32	48	49	8.8	4.8
4	2.1	1.9	1.7	1.4	1.5	1.6	1.8	31	44	44	8.7	4.8
5	2.0	1.8	1.7	1.4	1.5	1.6	1.8	36	44	40	8.5	4.6
6	2.0	1.8	1.7	1.4	1.5	1.6	1.8	44	43	36	8.1	4.6
7	2.0	1.8	1.7	1.4	1.5	1.7	1.8	46	43	33	7.8	5.3
8	2.0	1.8	1.7	1.4	1.5	1.7	1.8	50	44	31	7.6	4.9
9	2.0	1.8	1.7	1.4	1.5	1.7	1.9	47	55	28	7.3	4.7
10	2.0	1.7	1.7	1.5	1.5	1.7	1.9	41	64	26	7.0	7.8
11	2.0	1.8	1.6	1.6	1.6	1.7	2.0	35	80	25	6.7	8.5
12	2.0	1.7	1.6	1.9	1.6	1.7	2.0	29	104	23	6.5	6.2
13	2.0	1.8	1.6	2.0	1.6	1.7	2.2	24	101	22	6.3	5.6
14	2.1	1.7	1.6	2.4	1.6	1.7	2.6	22	88	21	5.9	5.2
15	2.2	1.7	1.6	2.0	1.6	1.7	3.0	23	77	19	5.8	4.9
16	2.1	1.7	1.6	1.8	1.6	1.6	3.5	25	61	18	5.5	4.9
17	2.1	1.7	1.6	1.7	1.7	1.6	4.6	24	60	17	5.0	4.8
18	2.1	1.7	1.6	1.8	1.7	1.6	6.4	24	76	16	5.4	4.7
19	3.9	1.7	1.6	1.7	1.7	1.6	8.1	27	88	15	6.8	4.7
20	2.4	1.6	1.6	1.7	1.7	1.6	12	47	95	15	5.3	4.8
21	1.8	1.5	1.6	1.5	1.7	1.6	15	71	102	14	4.7	4.8
22	1.8	1.6	1.6	1.5	1.6	1.6	15	85	97	14	4.5	4.9
23	1.8	1.7	1.6	1.5	1.7	1.6	18	88	87	13	4.4	4.8
24	1.8	1.7	1.6	1.5	1.7	1.6	17	64	74	13	4.3	4.8
25	1.8	1.7	1.6	1.5	1.7	1.7	14	56	66	12	4.3	4.7
26	1.9	1.8	1.6	1.5	1.7	1.7	16	43	62	11	4.3	4.6
27	1.8	1.7	1.6	1.5	1.7	1.7	21	38	59	11	5.4	4.6
28	1.8	1.8	1.6	1.5	1.7	1.7	27	35	53	11	5.3	4.7
29	1.7	1.8	1.6	1.5	1.6	1.7	33	33	48	10	5.2	4.7
30	1.7	1.8	1.6	1.5	---	1.7	28	35	48	10	5.4	4.6
31	1.7	---	1.6	1.5	---	1.7	---	35	---	10	5.5	---
TOTAL	62.6	52.0	50.6	49.4	46.5	51.2	268.3	1253	1996	711	195.1	153.0
MEAN	2.02	1.73	1.63	1.59	1.60	1.65	8.94	40.4	66.5	22.9	6.29	5.10
MAX	3.9	1.9	1.7	2.4	1.7	1.7	33	88	104	53	9.7	8.5
MIN	1.7	1.5	1.6	1.4	1.5	1.6	1.7	22	39	10	4.3	4.6
AC-FT	124	103	100	98	92	102	532	2490	3960	1410	387	303

CAL YR 1979 TOTAL 1897.5 MEAN 5.20 MAX 51 MIN 1.5 AC-FT 3760
WTR YR 1980 TOTAL 4888.7 MEAN 13.4 MAX 104 MIN 1.4 AC-FT 9700

13078205 RAFT RIVER BELOW ONEMILE CREEK, NEAR MALTA, ID

LOCATION.--Lat 42°04'13", long 113°26'37", in NW¼SE¼SW¼ sec.32, T.15 S., R.26 E., Cassia County, Hydrologic Unit 17040210, Bureau of Land Management lands, on left bank 64 ft (19.5 m) downstream from county road crossing, 300 ft (91.4 m) downstream from Onemile Creek, 16 miles (26 km) southwest of Malta, and at mile 44.3 (71.3 km).

DRAINAGE AREA.--433 mi² (1,121 km²). Mean altitude, 6,300 ft (1,920 m).

PERIOD OF RECORD.--September 1946 to December 1953, May 1955 to June 1971, October 1975 to current year. Records since October 1975 equivalent to earlier records published as "at Peterson Ranch, near Bridge" (station 13078000) except for unusually heavy rainstorm runoff from Onemile Creek drainage.

GAGE.--Water-stage recorder. Altitude of gage is 4,940 ft (1,510 m), from topographic map. Prior to October 1975 at site 0.4 mi (0.6 km) upstream at different datum.

REMARKS.--Records fair except those for August and September, which are poor. Diversions above station for irrigation of about 16,000 acres (6,500 hm²), 1966 determination.

AVERAGE DISCHARGE.--27 years, 18.0 ft³/s (0.51 m³/s), 13,040 acre-ft/yr (16.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,250 ft³/s (63.7 m³/s) Jan. 14, 1980, gage height, 8.20 ft (2.499 m), present datum; minimum, 0.8 ft³/s (0.02 m³/s) Jan. 23, 1961, gage height, 1.02 ft (0.311 m), site and datum then in use, result of ice jam upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,250 ft³/s (63.7 m³/s) Jan. 14, gage height, 8.20 ft (2.499 m), from rating curve extended above 70 ft³/s (1.98 m³/s) on basis of slope area measurement of peak flow; minimum daily, 5.8 ft³/s (0.16 m³/s) Oct. 10, but may have been lower during period of no gage-height record.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Jan. 15 to Feb. 14, May 18 to Sept. 30;
stage-discharge relation affected by ice Nov. 29, 30, Jan. 19 to Feb. 3)

2.8	5.7	3.8	93
2.9	9.3	4.5	232
3.1	20	5.5	554
3.4	44	7.0	1340

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	8.1	7.5	10	13	40	35	74	195	44	9.3	7.3
2	7.3	8.5	7.9	10	15	40	35	71	219	44	8.8	7.2
3	6.2	8.1	8.2	11	16	41	34	79	280	44	8.9	7.2
4	6.7	8.3	8.4	11	18	39	34	86	240	40	8.4	7.1
5	7.0	8.6	8.4	11	23	39	32	89	242	39	8.5	6.9
6	7.4	8.5	8.5	11	26	39	34	87	284	39	8.8	6.5
7	6.4	8.6	9.0	12	29	37	34	93	261	35	8.2	6.6
8	7.1	7.8	9.3	12	20	35	34	84	215	33	7.5	7.0
9	6.2	6.6	9.5	12	15	30	33	109	183	31	7.4	6.9
10	5.8	6.6	10	13	18	26	33	119	187	28	7.4	7.2
11	6.0	6.7	8.5	11	17	23	33	128	172	25	7.4	12
12	8.2	7.5	8.9	35	23	20	33	153	165	24	7.2	11
13	6.2	6.7	8.6	690	20	20	33	143	158	22	7.4	10
14	6.2	6.8	8.6	1210	27	20	33	121	151	22	8.6	9.5
15	6.1	6.8	8.8	273	64	20	32	113	159	22	8.1	9.0
16	6.3	6.9	9.1	80	153	18	35	129	120	19	7.9	8.0
17	6.3	7.2	9.4	41	99	18	34	142	136	19	6.7	9.0
18	6.5	7.2	9.4	31	107	18	43	136	121	19	7.4	8.4
19	8.3	7.0	9.6	23	117	18	49	142	113	18	8.3	8.3
20	8.4	6.7	9.9	19	86	19	58	131	105	15	9.0	8.2
21	7.6	6.8	11	18	66	20	60	113	95	16	8.4	8.2
22	7.7	7.1	11	17	63	19	60	98	86	15	8.0	8.4
23	7.5	7.5	9.9	16	51	17	64	77	79	14	7.7	8.7
24	7.5	7.6	10	16	46	13	70	172	75	14	7.4	8.9
25	7.7	7.7	9.9	15	37	13	74	193	69	12	7.9	8.7
26	8.6	7.7	11	13	37	13	66	145	64	11	8.1	8.6
27	9.6	6.9	10	12	42	13	67	117	55	9.8	8.3	8.6
28	8.7	6.6	9.9	11	44	27	63	110	51	10	8.2	8.4
29	9.6	6.0	9.8	10	46	26	61	103	48	11	7.8	8.4
30	9.9	6.9	9.8	9.0	---	33	61	106	46	11	7.4	9.0
31	8.5	---	10	11	---	37	---	185	---	9.4	7.3	---
TOTAL	228.4	220.0	289.8	2674.0	1338	791	1367	3648	4374	715.2	247.7	249.2
MEAN	7.37	7.33	9.35	86.3	46.1	25.5	45.6	118	146	23.1	7.99	8.31
MAX	9.9	8.6	11	1210	153	41	74	193	284	44	9.3	12
MIN	5.8	6.0	7.5	9.0	13	13	32	71	46	9.4	6.7	6.5
AC-FT	453	436	575	5300	2650	1570	2710	7240	8680	1420	491	494

CAL YR 1979 TOTAL 5995.1 MEAN 16.4 MAX 196 MIN 4.4 AC-FT 11890
WTR YR 1980 TOTAL 16142.3 MEAN 44.1 MAX 1210 MIN 5.8 AC-FT 32020

NOTE.--No gage-height record Aug. 17 to Sept. 30.

13081500 SNAKE RIVER NEAR MINIDOKA, ID

LOCATION.--Lat 42°40'23", long 113°29'58", in SW¼NE¼ sec.2, T.9 S., R.25 E., Minidoka County, Hydrologic Unit 17040209, on right bank 1 mi (2 km) downstream from Minidoka Dam, 6 mi (10 km) south of Minidoka, and at mile 673.5 (1,083.7 km).

DRAINAGE AREA.--15,700 mi² (40,700 km²), approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--August 1895 to current year. Monthly discharge only for some periods, published in WSP 1317. Published as "below Minidoka dam, at Howell's Ferry" 1911. Records for August 1895 to Apr. 20, 1910, at site 6 mi (10 km) downstream "at Montgomery Ferry."

REVISED RECORDS.--WSP 1347: 1911.

GAGE.--Water-stage recorder. Datum of gage is 4,132.2 ft (1,259.49 m) National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Apr. 21, 1910, nonrecording gage at site 6 mi (10 km) downstream at different datum. Apr. 21, 1910, to Aug. 28, 1911, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by American Falls Reservoir (see sta 13076500), Lake Walcott (see sta 13081000) and other reservoirs, having a combined usable capacity of about 4,700,000 acre-ft (5,800 hm³). Diversions above station for irrigation of about 128,000 acres (51,800 hm²) below and about 1,200,000 acres (486,000 hm²) above station of which about 304,000 acres (123,000 hm²) are by withdrawals from ground water (1966 determination). Considerable water leaks into the Snake Plain aquifer above station.

AVERAGE DISCHARGE.--54 years (1927-80), 6,188 ft³/s (175.2 m³/s), 4,483,000 acre-ft/yr (5,530 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,500 ft³/s (1,350 m³/s) May 29, 30, 1897, gage height, 12.6 ft (3.84 m), former site and datum; minimum, 37 ft³/s (1.05 m³/s) Jan. 28, Feb. 4, 11, 18, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,000 ft³/s (708 m³/s) June 7, gage height, 11.64 ft (3.548 m); minimum daily, 364 ft³/s (10.3 m³/s) Nov. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5310	733	377	448	560	736	1480	13500	22100	9480	9860	8230
2	5050	441	396	453	560	720	1570	11600	22500	9130	9780	8020
3	4530	726	402	459	564	733	2220	10800	23100	9000	10200	7880
4	4230	995	399	460	566	766	4210	10800	23800	9130	9550	7800
5	4140	963	441	481	558	752	5490	10500	24500	9570	9090	7820
6	4650	700	409	460	574	772	5710	10600	24700	9820	9020	7820
7	5200	488	389	460	575	800	6990	11100	24800	9920	9280	7740
8	4170	494	404	500	573	807	8190	11300	24800	9600	9550	7420
9	2740	430	409	560	574	835	8880	11400	24700	9600	9850	7180
10	2220	374	413	550	576	835	7780	12000	23800	9690	9670	6780
11	2480	374	417	560	579	863	6680	13500	20800	9920	9090	6260
12	2640	364	421	580	580	916	7160	15100	17600	10100	9100	5790
13	2500	369	425	691	581	1210	7160	16800	16300	10400	9180	5440
14	1610	404	419	1470	583	1480	6840	17600	14400	10800	9510	4910
15	1170	456	430	2040	598	1490	6380	17400	12600	10300	9920	4460
16	1350	451	425	1910	647	1460	5600	17000	12500	10300	9780	4780
17	1660	451	430	1180	674	1450	5020	15500	13200	9950	9110	4410
18	1720	483	462	708	882	1440	4440	14200	13300	10000	8970	4380
19	1640	456	499	698	1490	1480	4170	14400	12700	10100	9070	4450
20	1680	425	500	693	1480	1440	4190	14700	11000	10200	8800	4330
21	1850	384	500	691	1290	1430	4460	14600	9550	10100	8530	4690
22	1940	384	490	588	1010	1010	5050	14300	9370	9890	8330	4970
23	1860	389	490	506	774	759	5370	14800	9230	9600	8450	5190
24	1850	388	500	516	687	713	5950	16300	9260	9540	8830	4770
25	1850	384	511	524	677	726	6400	17200	9120	9660	8940	4480
26	1490	385	509	540	632	733	6970	18100	9040	9950	8750	4150
27	971	383	509	550	602	759	7540	19800	9500	9820	8710	3930
28	1240	382	470	560	610	826	7960	20800	9860	9630	8720	4200
29	1440	380	460	560	696	955	11000	20700	10000	9410	8680	4150
30	1430	379	450	560	---	1000	13800	21200	9760	9570	8710	4180
31	1360	---	450	560	---	1150	---	22000	---	9760	8560	---
TOTAL	77971	14415	13806	21516	20752	31046	184660	469600	477890	303940	283590	170610
MEAN	2515	481	445	694	716	1001	6155	15150	15930	9805	9148	5687
MAX	5310	995	511	2040	1490	1490	13800	22000	24800	10800	10200	8230
MIN	971	364	377	448	558	713	1480	10500	9040	9000	8330	3930
AC-FT	154700	28590	27380	42680	41160	61580	366300	931500	947900	602900	562500	338400

CAL YR 1979 TOTAL 2285432 MEAN 6261 MAX 10600 MIN 364 AC-FT 4533000
WTR YR 1980 TOTAL 2069796 MEAN 5655 MAX 24800 MIN 364 AC-FT 4105000

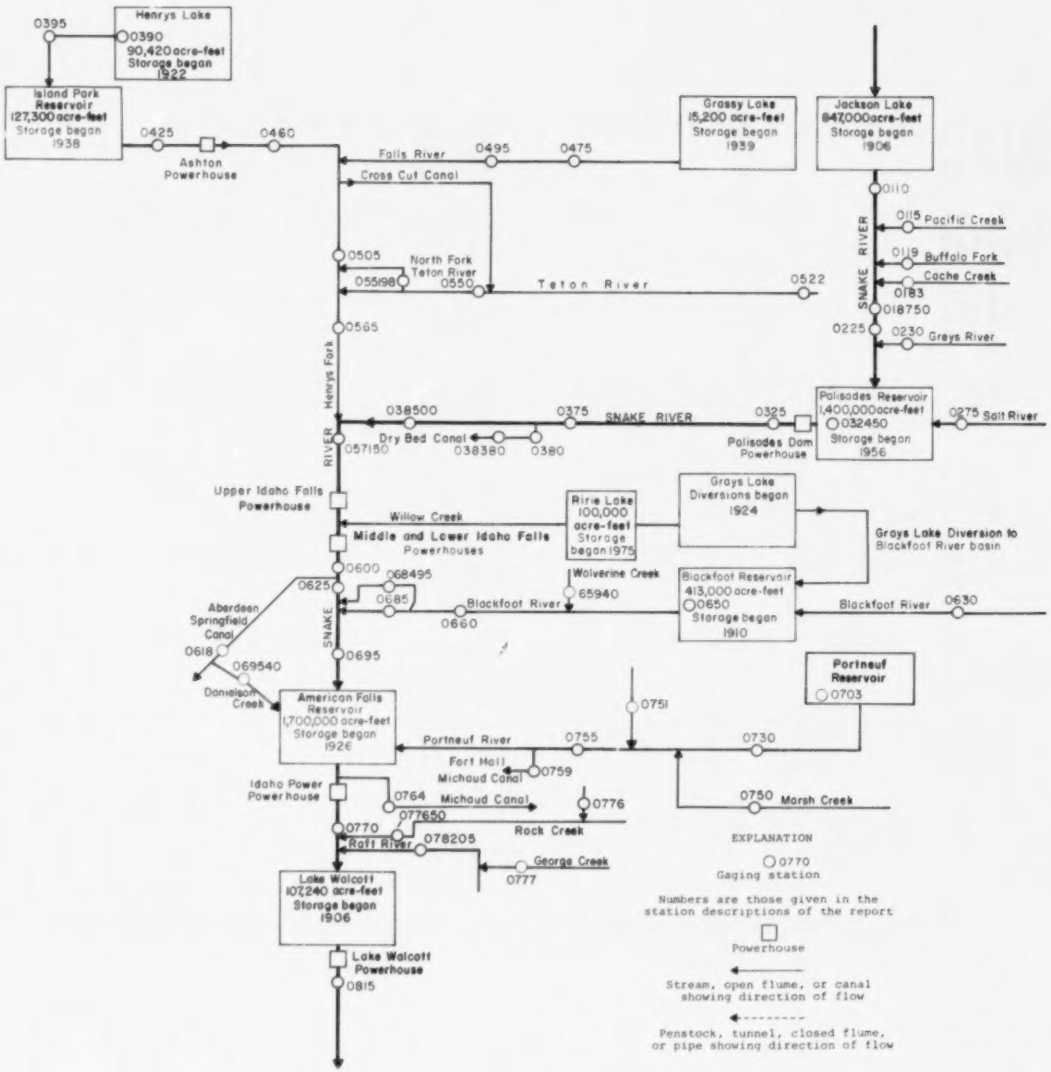
Henrys Lake
0390
90,420 acre-feet
Storage began
1922
0395
Island Park Reservoir
127,300 acre-feet
Storage began
1938
0425
Ashton Powerhouse
0460
Falls River
0495
0475
Grassy Lake
15,200 acre-feet
Storage began
1939
Jackson Lake
847,000 acre-feet
Storage began
1906
0110
0115 Pacific Creek
0119 Buffalo Fork
Cache Creek
0183
018750
0225
0230 Grays River
SNAKE RIVER
Cross Cut Canal
0505
North Fork Teton River
055198
0550
Teton River
0522
0565
Henrys Fork
038500
0375
SNAKE RIVER
0325
Palisades Dam Powerhouse
Palisades Reservoir
1,400,000 acre-feet
032450
Storage began
1956
0275 Salt River
RIVER
057150
Dry Bed Canal
038380
0380
Upper Idaho Falls Powerhouse
Willow Creek
Ririe Lake
100,000 acre-feet
Storage began 1975
Grays Lake Diversions began 1924
Grays Lake Diversion to Blackfoot River basin
Middle and Lower Idaho Falls Powerhouses
0600
0625
068495
0685
Wolverine Creek
65940
Blackfoot Reservoir
413,000 acre-feet
0650
Storage began
1910
Blackfoot River
0630
Blackfoot River
0660
Aberdeen Springfield Canal
0618
069540
Danielson Creek
SNAKE
0695
American Falls Reservoir
1,700,000 acre-feet
Storage began
1926
Portneuf River
0755
0751
0730
Portneuf Reservoir
0703
Fort Hall Michaud Canal
0759
0750 Marsh Creek
Idaho Power Powerhouse
0764
Michaud Canal
0776
0770
077650
Rock Creek
Raft River
078205
George Creek
0777
Lake Walcott
107,240 acre-feet
Storage began
1906
Lake Walcott Powerhouse
0815
EXPLANATION
0770
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

FIGURE 7.--Gaging stations in upper Snake River basin between Jackson Lake and Minidoka.

13082030 SNAKE RIVER NEAR BURLEY, ID

LOCATION.--Lat 42°37'12", long 113°35'19", in SW¼SW¼ sec.19, T.9 S., R.25 E., Minidoka County, Hydrologic Unit 17040209, at old Highway 30 bridge, 3.8 mi (6.1 km) east of Rupert, and at mile 668.6 (1,076 km).
DRAINAGE AREA.--Not determined.
PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)
OCT									
24...	1030	1820	526	8.3	9.5	9.0	10.9	110	42
NOV									
28...	1811	760	842	7.9	-8.0	.0	7.4	59	K6
DEC									
19...	1804	497	525	7.6	9.0	1.0	--	--	K2
JAN									
22...	1800	446	390	8.8	-5.0	.0	9.3	75	24
FEB									
28...	1406	648	510	8.6	9.0	6.5	12.0	114	74
APR									
22...	1919	5520	428	8.3	19.0	12.0	11.4	124	59
MAY									
28...	1658	21100	386	8.6	16.0	12.5	9.3	102	36
JUN									
27...	1408	8490	396	8.6	28.5	20.0	6.9	88	39
JUL									
29...	1722	9800	358	8.6	28.0	23.0	--	--	24
AUG									
26...	1601	8740	397	8.6	26.0	21.0	8.3	108	K15
SEP									
24...	1509	4460	391	8.9	25.0	17.0	9.1	108	30

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
OCT									
24...	3	.65	.49	.64	1.3	5.7	.18	.100	.31
NOV									
28...	5	.89	.50	.72	1.6	7.1	.27	.090	.28
DEC									
19...	3	.64	.68	.69	1.3	5.9	.01	.090	.28
JAN									
22...	12	.09	.70	.75	.84	3.7	.06	.070	.21
FEB									
28...	17	.10	.59	.63	.73	3.2	.05	.040	.12
APR									
22...	21	.05	.47	.60	.65	2.9	.16	.090	.28
MAY									
28...	20	.01	.44	.56	.57	2.5	.15	.050	.15
JUN									
27...	11	.12	.54	.54	.66	2.9	.00	.040	.12
JUL									
29...	87	.09	1.4	1.4	1.5	6.6	.00	.080	.25
AUG									
26...	13	.00	.54	.54	.54	2.4	.00	.060	.18
SEP									
24...	16	.00	.53	.53	.53	2.3	.00	.110	.34

K Results based on counts outside ideal colony count range.

13082030 SNAKE RIVER NEAR BURLEY, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
DEC 19...	3	2	0	3	210	43	.1	0
JUN 27...	3	1	--	8	210	16	.0	30
SEP 24...	3	0	4	20	440	3	.0	70

DATE	GROSS ALPHA, DISSOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)
JUN 27...	<2.6	<3.8	<.3	2.0	1.9	<.4	<.4
SEP 24...	<2.4	<3.6	.5	4.3	4.1	<.4	<.5

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID

LOCATION.--Lat 42°07'30", long 113°56'20", in sec.13, T.15 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on right bank 0.2 mi (0.3 km) upstream from maximum flow line of Oakley Reservoir, 5 mi (8 km) upstream from Trapper Creek, 5 mi (8 km) south of Oakley Dam, 9 mi (14.5 km) southwest of Oakley, and at mile 35.1 (56.5 km).

DRAINAGE AREA.--633 mi² (1,640 km²). Mean altitude, 6,030 ft (1,837.9 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,770 ft (1,453.9 m), by barometer. Prior to Aug. 29, 1912, at site 200 ft (61.0 m) downstream at different datum.

REMARKS.--Records fair. Decreed water rights are reported to apply to about 2,700 acres (1,090 hm²) above station. Diversions for irrigation are made as flow permits to a major part of this acreage. Flow of artesian well, completed in 1935, enters below station. Pumps on four wells above and one below gage may occasionally discharge into the channel. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).

AVERAGE DISCHARGE.--66 years, 46.9 ft³/s (1.33 m³/s), 33,980 acre-ft/yr (41.90 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,240 ft³/s (91.8 m³/s) Feb. 11, 1962, gage height, 9.3 ft (2.83 m), determined from slope-area measurement of peak flow; no flow July 22 to Aug. 10, Aug. 22-30, 1934, Aug. 15 to Oct. 3, 1935, July 22 to Sept. 25, 1940, Sept. 14, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,130 ft³/s (32.0 m³/s) Jan. 14, gage height, 6.62 ft (2.018 m); minimum, 9.4 ft³/s (0.266 m³/s) Oct. 10, gage height, 1.36 ft (0.414 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 21, 22, 24, 25, 27-29, Dec. 1, 11-13, 23, and Jan. 24 to Feb. 3)

1.3	7.8	3.0	158
1.5	14	4.0	340
1.7	23	5.0	593
2.0	44	7.0	1290
2.5	92		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	24	20	23	30	57	41	198	152	53	23	16
2	14	24	26	26	32	54	47	191	178	58	23	16
3	14	25	28	29	35	55	44	188	202	56	22	16
4	14	25	28	32	38	55	44	176	208	56	20	16
5	14	25	27	30	44	53	44	171	217	52	18	15
6	14	26	28	31	46	52	47	178	217	50	18	14
7	15	25	29	32	44	50	49	189	203	45	18	14
8	15	25	31	26	49	48	50	195	186	41	17	15
9	13	25	31	26	50	47	50	200	171	40	16	15
10	11	24	31	35	44	45	49	200	161	37	16	15
11	11	24	25	44	43	44	50	200	153	34	15	29
12	11	22	22	78	45	44	52	220	146	31	16	23
13	12	22	21	351	45	43	53	215	135	29	13	22
14	12	25	20	797	43	45	59	205	130	26	13	21
15	13	24	22	371	99	44	69	200	125	30	16	20
16	16	25	24	132	238	41	81	195	120	28	17	17
17	16	28	25	88	196	38	92	200	115	25	16	20
18	17	25	25	76	220	41	107	200	110	24	17	18
19	21	24	24	66	157	42	126	190	105	23	19	18
20	25	21	23	52	114	41	142	180	105	22	21	18
21	26	20	25	54	87	42	160	170	100	21	19	18
22	24	22	26	49	72	44	176	170	93	20	17	18
23	22	24	25	47	65	43	198	164	90	19	17	19
24	21	28	23	45	59	40	211	190	85	18	15	19
25	20	26	20	44	54	39	215	207	80	17	18	19
26	20	25	27	40	54	38	198	184	76	16	17	19
27	19	24	26	35	55	39	195	159	74	18	18	19
28	20	22	25	25	58	41	198	144	68	23	17	18
29	21	20	23	24	58	39	208	149	64	21	16	18
30	22	17	20	25	---	42	208	146	58	20	16	19
31	24	---	22	28	---	43	---	144	---	21	16	---
TOTAL	532	716	772	2761	2174	1389	3263	5718	3927	974	540	544
MEAN	17.2	23.9	24.9	89.1	75.0	44.8	109	184	131	31.4	17.4	18.1
MAX	26	28	31	797	238	57	215	220	217	58	23	29
MIN	11	17	20	23	30	38	41	144	58	16	13	14
AC-FT	1060	1420	1530	5480	4310	2760	6470	11340	7790	1930	1070	1080

CAL YR 1979 TOTAL 19129.2 MEAN 52.4 MAX 725 MIN 7.2 AC-FT 37940
WTR YR 1980 TOTAL 23310.0 MEAN 63.7 MAX 797 MIN 11 AC-FT 46240

NOTE.--No gage-height record June 13 to July 24.

13082500 GOOSE CREEK ABOVE TRAPPER CREEK, NEAR OAKLEY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.
REMARKS.--Miscellaneous chemical data published for water year 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV. 08...	1155	25	449	7.8	3.0	2.0	160	1	48	10	20	25
DEC 12...	1140	18	422	--	5.0	.5	--	--	--	--	--	--
JAN 16...	1120	120	232	--	.0	1.0	--	--	--	--	--	--
MAR 27...	1415	41	399	--	1.5	5.5	--	--	--	--	--	--
MAY 22...	0815	168	224	7.6	14.0	17.0	89	7	27	5.2	11	21
JUL 24...	1240	16	500	--	30.0	22.5	--	--	--	--	--	--
SEP 12...	1130	22	328	--	20.0	13.5	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
NOV 08...	.7	7.5	160	26	15	.4	33	256	.35	17.5	.02	.050
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 22...	.5	.5	82	9.4	7.9	.2	36	147	.20	66.7	.22	.270
JUL 24...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--	--	--

13083000 TRAPPER CREEK NEAR OAKLEY, ID

LOCATION.--Lat 42°10'10", long 113°58'20", in sec.34, T.14 S., R.21 E., Cassia County, Hydrologic Unit 17040211, on left bank 4 mi (6.4 km) upstream from Oakley, 7 mi (11.3 km) southwest of Oakley, and at mile 3.0 (4.8 km)

DRAINAGE AREA.--53.7 mi² (139 km²). Mean altitude, 6,360 ft (1,938 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1911 to September 1916, March 1919 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1063: 1941, 1943. WSP 1567: Drainage area.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 4,820 ft (1,469 m) by barometer. Prior to Sept. 1, 1912, water-stage recorder at approximately present site at different datum, Apr. 8, 1913, to Sept. 30, 1916, and Mar. 28, 1919, to Aug. 15, 1931, at site 1 mi (1.6 km) upstream at different datum. Sept. 1, 1912, to Apr. 7, 1913, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum.

REMARKS.--Records good except those for January to February, which are fair. Small diversions above station for irrigation. Diversion and return flow for fish ponds just above station since 1979. Flow of artesian well, completed in 1936, enters above. Practically entire flow passing station is stored in Oakley Reservoir (see sta 13083500).

AVERAGE DISCHARGE.--66 years, 15.1 ft³/s (0.428 m³/s) 10,940 acre-ft/yr (13.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 270 ft³/s (7.65 m³/s) Aug. 17, 1941, gage height, 6.99 ft (2.13 m) during cloudburst, from rating curve extended above 100 ft³/s (2.83 m³/s) on basis of velocity-area studies and peak flow over weir (a higher flow may have occurred during cloudburst Aug. 15, 1931); minimum, 1.3 ft³/s (0.037 m³/s) Jan. 1, 1970, gage height, 4.53 ft (1.38 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 131 ft³/s (3.71 m³/s) Jan. 14, gage height, 5.90 ft (1.798 m); minimum, 5.2 ft³/s (0.147 m³/s) Nov. 29.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

4.8	8.3	5.3	48
4.9	14	5.5	71
5.1	29		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	12	14	12	13	15	14	29	33	19	12	12
2	9.8	12	16	12	14	15	14	29	39	19	12	11
3	9.7	12	14	12	15	15	14	29	38	19	11	11
4	9.9	12	13	13	15	15	14	30	38	18	11	11
5	9.9	12	13	13	15	14	15	29	38	19	11	11
6	10	12	13	12	16	14	16	29	32	18	11	11
7	9.9	12	13	12	18	14	15	52	29	18	11	12
8	9.9	12	14	13	16	14	15	50	29	17	11	14
9	10	12	13	13	14	13	16	49	29	17	11	12
10	10	12	13	16	14	12	16	45	35	17	11	14
11	10	12	11	12	13	12	16	41	34	16	11	14
12	10	12	12	52	13	13	16	40	30	16	11	12
13	10	12	13	56	13	13	18	36	29	15	11	14
14	10	12	13	70	13	13	20	44	33	15	11	12
15	10	12	13	23	24	13	22	47	33	15	12	12
16	10	12	13	17	16	12	24	47	29	14	12	12
17	10	12	12	16	25	12	26	44	28	14	11	12
18	11	12	12	15	37	13	29	41	26	14	11	11
19	15	12	12	15	21	12	31	42	25	14	12	11
20	15	12	12	14	24	12	35	36	28	14	11	12
21	12	11	12	15	17	13	36	43	26	14	11	12
22	12	12	12	15	16	13	37	39	25	13	11	12
23	12	13	12	15	15	12	34	46	24	13	11	12
24	12	13	13	14	14	12	31	47	24	12	11	12
25	11	14	12	14	14	12	30	43	23	12	11	12
26	11	14	12	14	14	12	29	37	22	12	11	12
27	11	13	12	13	14	13	29	34	21	12	12	11
28	12	9.8	11	11	16	13	29	32	20	12	11	11
29	11	9.8	13	13	15	13	29	37	20	12	11	11
30	11	11	12	12	---	14	29	39	19	12	12	11
31	11	---	12	12	---	14	---	36	---	12	12	---
TOTAL	336.0	360.6	392	566	484	407	699	1222	859	464	349	357
MEAN	10.8	12.0	12.6	18.3	16.7	13.1	23.3	39.4	28.6	15.0	11.3	11.9
MAX	15	14	16	70	37	15	37	52	39	19	12	14
MIN	9.7	9.8	11	11	13	12	14	29	19	12	11	11
AC-FT	666	715	778	1120	960	807	1390	2420	1700	920	692	708

CAL YR 1979 TOTAL 6109.4 MEAN 16.7 MAX 44 MIN 8.0 AC-FT 12120
WTR YR 1980 TOTAL 6495.6 MEAN 17.7 MAX 70 MIN 9.7 AC-FT 12880

NOTE.--No gage-height record Jan. 16 to Feb. 14.

13083000 TRAPPER CREEK NEAR OAKLEY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1974-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
NOV 08...	0930	12	295	7.4	-.5	2.5	120	0	40	4.4	6.2	12
DEC 12...	0930	7.7	252	--	-3.5	2.0	--	--	--	--	--	--
JAN 16...	1405	15	228	--	8.0	5.5	--	--	--	--	--	--
MAR 27...	1142	13	245	--	1.5	5.5	--	--	--	--	--	--
MAY 21...	1435	45	149	7.3	25.5	16.0	58	5	19	2.5	5.9	17
JUL 24...	1515	13	230	--	35.0	24.0	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 08...	.2	3.0	120	9.7	4.5	.2	23	163	.22	5.33	.04	.020
DEC 12...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 16...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	.3	3.7	53	18	4.3	.1	34	121	.16	14.7	.28	.140
JUL 24...	--	--	--	--	--	--	--	--	--	--	--	--

13083500 OAKLEY RESERVOIR NEAR OAKLEY, ID

LOCATION.--Lat 42°11'50", long 113°54'50", in sec.19, T.14 S., R.22 E., Cassia County, Hydrologic Unit 17040211, just upstream from right abutment of Oakley Dam on Goose Creek, 4 mi (6.4 km) southwest of Oakley, and at mile 29.9 (48.1 km).

DRAINAGE AREA.--729 mi² (1,888 km²).

PERIOD OF RECORD.--October 1912 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Nonrecording gage. Altitude of gage is 4,630 ft (1,410 m), by barometer.

REMARKS.--Reservoir is formed by earth dam constructed in 1911-13; storage began in 1911. Usable capacity, 74,350 acre-ft (91.7 hm³) between gage heights 0.0 ft (0.0 m), bottom of diversion tunnel, and 136.0 ft (41.5 m) crest of spillway. Dead storage negligible. Water is used for irrigation of lands along Goose Creek in Oakley Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Oakley Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 74,600 acre-ft (92.0 hm³) June 15, 1921, gage height, 136.2 ft (41.5 m); reservoir drained at close of irrigation season in 1915, 1919-20, 1926, 1933, 1950, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 59,700 acre-ft (73.6 hm³) June 15, gage height, 122 ft (37.34 m); minimum observed, 21,700 acre-ft (26.8 hm³) Sept. 30, gage height, 74.2 ft (22.62 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

70.0	19,300	110.0	48,200
80.0	25,200	120.0	57,200
90.0	32,100	130.0	67,400
100.0	39,800		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25600	---	---	---	---	---	---	---	---	---	---	31000
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	41900	---
5	---	---	---	---	---	---	---	49800	---	---	---	---
6	---	26900	---	---	---	---	---	---	---	---	---	---
7	---	---	---	30000	---	---	---	---	---	53200	---	---
8	26000	27200	---	---	---	---	---	---	---	---	---	28200
9	---	---	---	---	---	---	---	---	59000	---	---	---
10	---	---	28800	---	---	---	---	---	---	---	---	---
11	---	---	---	---	36500	---	---	---	---	---	---	---
12	---	---	28800	---	---	---	---	51500	---	---	---	27000
13	---	---	---	---	---	---	---	---	---	---	---	---
14	26000	---	28800	32500	36600	---	44200	52200	---	50800	37800	26300
15	---	---	---	---	---	---	---	---	59700	---	---	---
16	---	---	---	34500	---	41700	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	27700	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	53800	---	---	---	---
21	---	---	---	35100	---	---	45600	54200	---	47800	---	23800
22	26400	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	29300	---	---	---	---	---	57800	46200	---	---
25	---	---	---	---	---	---	---	---	---	---	33600	---
26	---	---	---	---	---	---	---	55500	---	---	---	---
27	25900	---	---	---	---	42500	---	---	---	---	---	---
28	---	---	---	---	40100	---	---	---	---	---	---	---
29	---	---	---	---	40200	---	48000	---	---	---	---	---
30	---	28500	---	---	---	---	48300	---	55600	43900	---	21700
31	26700	---	29500	35500	---	42700	---	56300	---	43500	31400	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---
(†)	82.3	85.0	86.5	94.6	100.5	103.6	110.1	119.0	118.2	104.5	89.1	74.2
(‡)	+1100	+1800	+1000	+6000	+4700	+2500	+5500	+8000	-700	-12100	-12100	-9700

CAL YR 1979............‡ -300
WTR YR 1980............‡ -3900

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet, at end of month.

13087900 LAKE MILNER AT MILNER, ID

LOCATION.--Lat 42°31'25", long 114°00'47", in SW¼NE¼SE¼ sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040209, near left end of Milner Dam on Snake River, at Milner, at mile 640.0 (1,029.8 km).

DRAINAGE AREA.--17,180 mi² (44,500 km²), approximately, excluding indeterminate nontributary area on Snake River Plain.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4,122.51 ft (1,256.541 m) National Geodetic Vertical Datum of 1929. October 1974 to May 1978, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by a concrete gravity dam constructed in 1904 with first diversions in 1905. The dam is primarily a diversion dam. Capacity is a function of the river flow and the lake elevation at the dam. No precise limits on capacity can be set, but computations indicate 48,500 acre-ft (59.8 hm³) of usable storage at a lake gage of 12.0 ft (3.66 m) and a river flow of 25,000 ft³/s (708 m³/s), and 7,430 acre-ft (9.16 hm³) at a gage of 1.5 ft (0.457 m) and a river flow of 1,000 ft³/s (28.3 m³/s). Dead storage unknown. Water is used for irrigation by canals diverting at the dam and by pumps from the reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 45,800 acre-ft (56.5 hm³) May 23, 24, 1976; maximum gage height, 11.42 ft (3.475 m) June 28, 1978; minimum contents observed, 6,990 acre-ft (8.62 hm³) Nov. 3, 1977, gage height, 3.40 ft (1.056 m); minimum gage height, 2.90 ft (0.884 m) Oct. 19, 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 44,600 acre-ft (55.0 hm³) June 8; maximum gage height, 11.35 ft (3.459 m) Aug. 16; minimum contents, 7,700 acre-ft (9.49 hm³) Nov. 10; minimum gage height, 3.57 ft (1.088 m) Nov. 11.

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30600	9980	8540	9150	16200	27900	25500	38900	43700	36900	36500	36200
2	29800	8570	8540	9160	16300	27900	26200	37100	43600	36300	36600	35700
3	28800	8910	8580	9160	16500	27400	28000	37400	44100	36000	37000	35600
4	27200	10100	8490	9170	16700	27800	30500	37300	44100	35600	37200	35300
5	25900	10400	8820	9170	17100	27700	32100	36600	44200	36000	36200	35300
6	25700	9960	8540	9180	17300	28000	31700	36900	43800	36600	35400	35400
7	27000	8550	8670	9180	17700	27800	33600	37600	44400	37200	35200	35700
8	27200	8320	8710	9190	17900	28100	34800	37800	44600	36800	35700	35700
9	24200	8100	8690	9190	18200	28100	35600	37800	44200	36600	36400	35700
10	22500	7700	8470	9090	18400	28300	34800	38300	43500	36300	37200	35500
11	22400	7840	8670	8690	18700	25500	33500	39200	42400	36300	36800	35000
12	22900	7820	8560	8690	19100	28600	34100	40200	41000	36200	36000	34600
13	23100	7720	8670	9950	19500	29300	34100	41200	40900	36900	35800	34800
14	21000	7960	8670	12000	19900	29900	33200	41600	38800	37800	36000	33800
15	18000	8130	8770	13600	20300	29100	32900	41700	38300	37700	37100	32900
16	16500	8240	8770	14200	20700	29800	32000	41300	38500	37900	37700	32900
17	15800	8170	8670	16700	21300	30000	31000	39900	38800	37600	36800	32700
18	15200	8060	8940	19200	22200	29200	31600	39100	39000	36900	36300	32000
19	14700	8190	8840	19400	24500	29200	31800	39900	38600	36700	36400	31600
20	14500	8430	8920	18800	26100	29000	31900	39800	37400	36900	36400	30500
21	14100	8670	8960	18800	27200	28700	32100	39600	36300	37200	36000	31000
22	14300	8880	8960	18400	27800	27800	32500	38900	36400	37200	35400	31500
23	14500	8670	8900	16900	28300	26400	32700	40200	36300	36800	35000	31900
24	14500	8880	9120	16500	28500	25300	32400	40800	36400	36400	35200	32700
25	14400	8670	9120	16300	28500	25100	32500	41500	36000	36200	35600	33000
26	14000	8670	9120	15800	28300	24600	33000	41800	34800	36800	35700	32900
27	11600	8670	9130	15900	28100	24100	34000	43300	35300	37300	35600	31900
28	10600	8620	9130	16100	28100	24000	34700	43400	36100	37100	35700	31700
29	11400	8320	9140	16100	27800	23200	37000	43500	36900	36200	35700	32000
30	11500	8410	9140	16100	---	23900	40200	43700	37100	36000	35900	31900
31	11100	---	9150	16100	---	24200	---	44100	---	36200	36300	---
MAX	30600	10400	9150	19400	28500	30000	40200	44100	44600	37900	37700	36200
MIN	10600	7700	8470	8690	16200	23200	25500	36600	34800	35600	35000	30500
(†)	11100	8410	9150	16100	27800	24200	40200	44100	37100	36200	36300	31900
(‡)	-19500	-2690	+740	+6950	+11700	-3600	+16000	+3900	-7000	-900	+100	-4400

CAL YR 1979............‡ -9350
WTR YR 1980............‡ +1300

†Elevation, in feet, at end of month.
‡Change in contents, in thousands of acre-feet.

13087900 LAKE MILNER AT MILNER DAM, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.
REMARKS.--Discharge computed using gaging station 13088000 0.4 mi (0.6 km) downstream and releases into canal at Milner Dam.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)
NOV									
28...	1020	560	609	8.6	-6.0	.0	12.7	101	K18
DEC									
19...	1124	555	658	7.6	10.0	1.5	--	--	K19
JAN									
23...	1344	761	551	8.4	-1.5	2.0	7.8	65	540
FEB									
27...	1145	750	568	8.5	15.0	4.0	15.1	132	270
APR									
23...	1626	63	433	8.7	26.5	14.5	10.3	117	K3900
MAY									
29...	1650	12900	391	8.4	14.5	13.0	9.7	108	K120
JUN									
25...	1102	188	410	8.2	22.0	19.0	5.5	69	212
JUL									
30...	1130	310	536	9.0	42.0	23.0	--	--	35
AUG									
26...	1011	269	381	6.7	22.0	19.0	9.3	115	K39
SEP									
25...	0950	26	391	9.0	13.0	13.5	9.3	102	112

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)
NOV									
28...	6	1.3	.00	.40	1.7	7.5	.51	.230	.71
DEC									
19...	18	1.5	.62	1.2	2.7	12	.70	.260	.80
JAN									
23...	6	.65	1.3	1.9	2.6	11	.75	.300	.92
FEB									
27...	10	.79	.88	1.4	2.2	9.7	.63	.240	.74
APR									
23...	27	.01	1.0	1.0	1.0	4.5	.00	.040	.12
MAY									
29...	19	.03	.51	.61	.64	2.8	.12	.060	.18
JUN									
25...	11	.00	.71	.74	.74	3.3	.04	.010	.03
JUL									
30...	3	.08	.71	.71	.79	3.5	.08	.050	.15
AUG									
26...	11	.00	1.5	1.5	1.5	6.6	.00	.070	.21
SEP									
25...	--	.00	.53	.53	.53	2.3	.00	.110	.34

K Results based on counts outside ideal colony count range.

13087900 LAKE MILNER AT MILNER DAM, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
DEC 19...	3	1	0	1	80	9	.6	0
JUN 25...	3	0	--	6	180	6	.0	40
SEP 25...	3	0	5	6	340	0	.0	40

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)
JUN 25...	<2.7	<4.0	<.3	3.5	3.3	<.4	.4
SEP 25...	4.1	6.1	.3	3.1	2.9	<.4	<.4

13088000 SNAKE RIVER AT MILNER, ID

LOCATION.--Lat 42°31'41", long 114°01'04", in SW¼NE¼ sec.29, T.10 S., R.21 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 200 ft (60 m) downstream from highway bridge at Milner, 0.4 mi (0.6 km) downstream from Milner Dam, and at mile 638.7 (1,027.7 km).

DRAINAGE AREA.--17,180 mi² (44,500 km²), approximately, excluding indeterminate nontributary area on Snake River Plain.

PERIOD OF RECORD.--May 1909 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1347: 1909-12, 1915-16, 1942-44, 1946-48.

GAGE.--Water-stage recorder. Datum of gage is 4,062.9 ft (1,238.37 m) National Geodetic Vertical Datum of 1929. Prior to May 28, 1919, nonrecording gages at slightly different sites and datums.

REMARKS.--Records good. Flow regulated by American Falls Reservoir (see sta 13076500), Lake Walcott (see sta 13081000), and other reservoirs having a combined usable capacity of about 4,700,000 acre-ft (5,800 hm³). Considerable water leaks into the Snake Plain aquifer above station. Diversions above station for irrigation of about 1,990,000 acres (805,000 hm²) of which about 504,000 acres (204,000 hm²) are by withdrawals from ground water and about 436,000 acres (176,000 hm²) are irrigated below station. Return flow in large part enters Snake River between Milner and King Hill station. At times practically entire flow is diverted during irrigation season.

COOPERATION.--Observer readings furnished by Twin Falls Canal Co. and North Side Canal Co.

AVERAGE DISCHARGE.--54 years (1927-80), 2,474 ft³/s (70.06 m³/s), 1,792,000 acre-ft/yr (2,210 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,000 ft³/s (1,130 m³/s) June 21, 1918, gage height, 19.9 ft (6.07 m), site and datum then in use; minimum, 2 ft³/s (0.057 m³/s) Mar. 17-28, 1936, Aug. 9 to Sept. 7, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,600 ft³/s (555 m³/s) June 6, gage height, 18.80 ft (5.730 m); minimum, 24 ft³/s (0.680 m³/s) Sept. 28, gage height, 1.93 ft (0.588 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	281	547	547	602	746	475	6880	15400	154	312	270
2	52	319	555	555	601	746	487	5090	15900	38	317	268
3	50	329	560	551	600	746	631	1960	16700	37	312	270
4	48	325	564	555	552	734	2490	2150	17900	36	383	268
5	46	359	555	539	527	742	4160	2490	18900	35	458	270
6	45	385	564	515	534	746	4830	1730	19400	36	302	272
7	45	376	576	527	540	739	5510	1700	19000	39	284	290
8	46	337	585	602	548	746	6740	2150	19000	44	270	415
9	46	315	581	651	553	743	6750	2270	18800	41	273	288
10	76	316	539	611	557	751	5460	2840	17800	40	283	350
11	71	350	535	598	491	741	5270	4200	14500	39	270	420
12	51	395	547	638	471	740	5280	6040	10100	38	281	690
13	52	395	560	805	476	757	4880	7690	7370	39	249	276
14	51	370	568	903	482	1220	3400	9250	7120	204	246	252
15	49	385	564	952	488	1350	3070	8800	4140	332	269	252
16	47	385	560	952	496	1370	1490	8740	3900	291	609	253
17	44	400	560	975	502	1440	101	8370	4740	296	285	268
18	43	380	551	820	510	1340	98	6820	4760	302	270	268
19	41	380	551	1080	526	1280	79	6160	4330	307	278	265
20	143	425	564	1060	550	1370	99	6520	2490	313	276	263
21	241	570	572	1020	578	1420	98	6530	1020	305	269	263
22	248	587	555	990	592	1400	63	5620	464	310	268	265
23	255	570	560	761	599	1060	63	5440	305	307	268	265
24	266	587	576	751	610	959	61	7180	411	305	270	263
25	268	587	585	660	698	676	61	7770	358	302	270	27
26	268	570	585	601	760	776	62	9870	186	302	270	26
27	260	570	589	598	755	564	62	11500	189	307	270	26
28	217	560	572	605	741	467	253	13800	85	313	259	24
29	191	539	543	606	735	467	1500	13300	31	305	269	24
30	221	535	531	602	---	447	5000	14000	31	303	274	24
31	249	---	539	602	---	460	---	14900	---	307	278	---
TOTAL	3782	12872	17393	22232	16674	27943	68523	211760	245338	6027	9202	7375
MEAN	122	429	561	717	575	901	2284	6831	8178	194	297	246
MAX	268	587	589	1080	760	1440	6750	14900	19400	332	609	690
MIN	41	281	531	515	471	447	61	1700	31	35	246	24
AC-FT	7500	25530	34500	44100	33070	55420	135900	420000	486600	11950	18250	14630

CAL YR 1979 TOTAL 915466 MEAN 2508 MAX 10800 MIN 34 AC-FT 1816000
WTR YR 1980 TOTAL 649121 MEAN 1774 MAX 19400 MIN 24 AC-FT 1288000

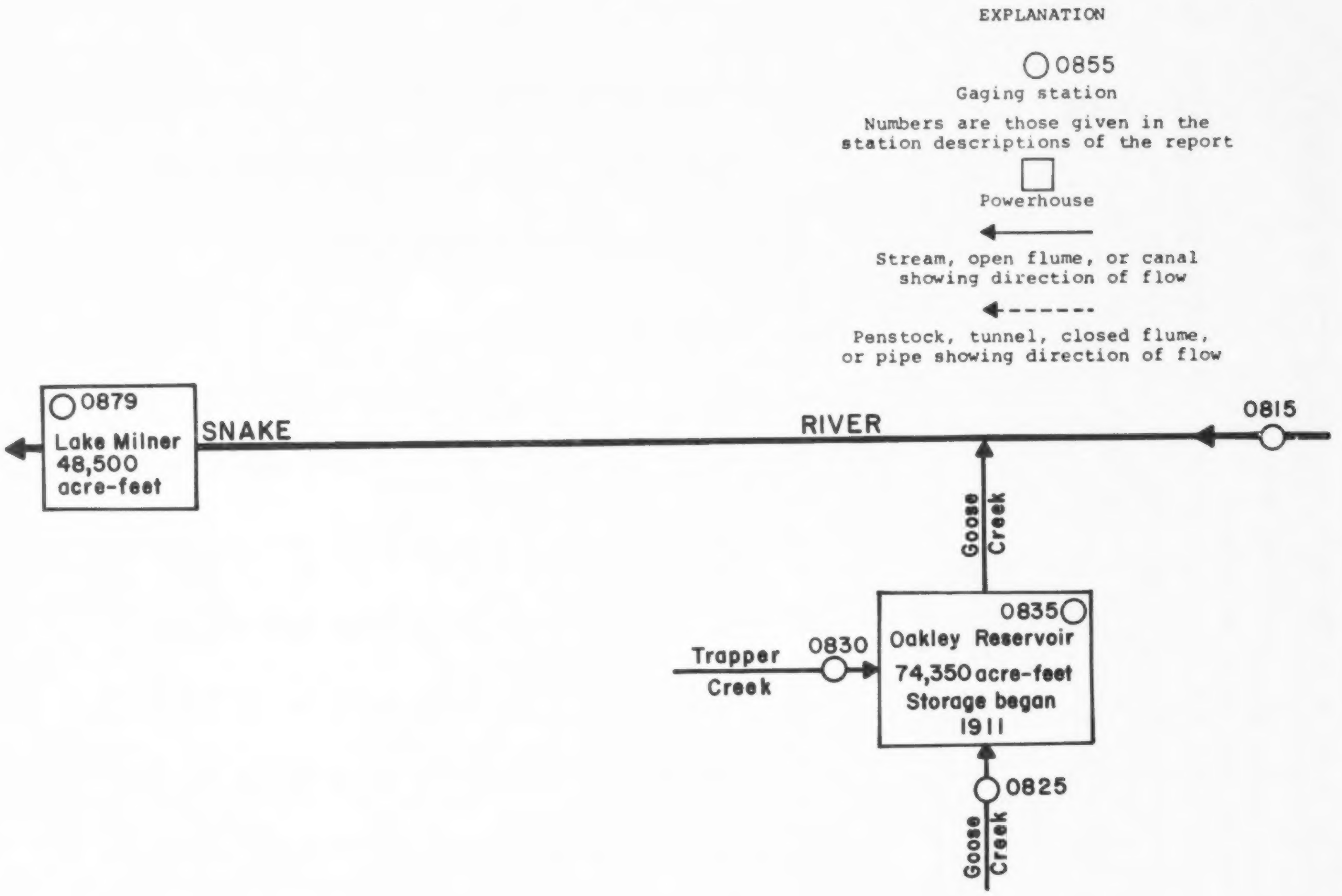
EXPLANATION
○ 0855
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
0879
Lake Milner
48,500
acre-feet
SNAKE
RIVER
0815
Goose Creek
0835
Oakley Reservoir
74,350 acre-feet
Storage began
1911
Trapper Creek
0830
0825
Goose Creek

FIGURE 8.-- Gaging stations in Snake River basin between Minidoka and Milner.

13090000 SNAKE RIVER NEAR KIMBERLY, ID

LOCATION.--Lat 42°35'28", long 114°21'34", in NE¼NW¼ sec.4, T.10 S., R.18 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 1,200 ft (370 m) downstream from Twin Falls powerplant, 2.2 mi (3.5 km) upstream from Shoshone Falls, 4 mi (6.4 km) north of Kimberly, and at mile 617.5 (993.6 km).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1923 to current year.

REVISED RECORDS.--WSP 1347: 1924-26, 1928-30, 1942-44, 1946-48.

GAGE.--Water-stage recorder. Datum of gage is 3,362.67 ft (1,024.942 m) National Geodetic Vertical Datum of 1929 (levels by Idaho Power Co.). Prior to Aug. 31, 1938, at site 2,000 ft (610 m) downstream at different datum.

REMARKS.--Records good. Flow regulated by American Falls Reservoir 96.5 mi (155.3 km) upstream (see sta 13076500) and other reservoirs having a combined usable capacity of 4,700,000 acre-ft (5,800 hm³). Diurnal fluctuation caused by hydroelectric powerplant 1,200 ft (370 m) upstream. At times practically entire flow is diverted at Milner during irrigation season; no diversions between Milner and Kimberly. Diversion above station for irrigation of about 2,020,000 acres (817,000 hm²) of which about 537,000 acres (217,000 hm²) are by withdrawals from ground water and about 364,000 acres (147,000 hm²) are irrigated below the station. Considerable water leaks into the Snake Plain aquifer upstream, a small part of which returns through springs a few miles above station.

AVERAGE DISCHARGE.--57 years, 2,881 ft³/s (81.59 m³/s), 2,087,000 acre-ft/yr (2,573 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,200 ft³/s (770 m³/s) July 4, 1927, gage height, 14.76 ft (4.499 m), site and datum then in use, from rating curve extended above 20,000 ft³/s (566 m³/s); minimum recorded, 10 ft³/s (0.28 m³/s) May 17, 1944, gage height, 1.15 ft (0.351 m); minimum daily recorded, 95 ft³/s (2.69 m³/s) Apr. 20, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,300 ft³/s (575 m³/s) June 6, gage height, 18.74 ft (5.712 m); minimum, 138 ft³/s (3.91 m³/s) Sept. 5, gage height, 2.87 ft (0.875 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)

4.0	314	10.0	3270
5.0	563	12.0	5600
6.0	918	15.0	10700
8.0	1870	19.0	21100

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	594	853	834	887	1020	716	7190	15400	346	683	634
2	461	632	871	856	891	1020	710	5620	15500	449	660	664
3	413	683	906	845	902	1020	736	2580	16600	369	683	649
4	441	679	860	838	894	1010	1570	2260	17800	362	666	661
5	451	665	887	845	807	1010	3760	2800	19300	367	748	618
6	423	708	871	819	807	1020	4670	2260	19900	354	794	640
7	428	733	887	800	815	1020	4840	1960	19700	388	593	653
8	428	679	894	845	815	1010	6500	2360	19500	379	662	681
9	423	655	906	914	826	1010	6910	2570	19400	332	593	755
10	418	651	906	969	823	1010	6700	3010	18500	367	599	688
11	433	669	826	879	841	1030	5390	4070	14900	338	637	679
12	456	708	823	929	729	1000	5180	6030	11000	369	598	781
13	428	697	871	1100	755	1020	5180	7940	7730	344	589	1140
14	441	711	879	1270	751	1170	5000	9500	7610	390	613	690
15	441	679	879	1290	766	1650	4190	9150	4740	516	584	659
16	428	708	879	1210	762	1640	3240	9120	4040	630	609	624
17	433	704	856	1300	781	1670	2950	8740	4580	610	761	644
18	399	715	875	1170	781	1700	1510	7090	5040	600	948	615
19	399	704	879	1380	792	1590	581	6320	4430	625	671	623
20	431	722	838	1350	811	1600	347	6680	3180	640	608	629
21	433	887	853	1320	845	1690	367	6740	1920	609	650	627
22	625	910	891	1260	856	1680	346	5690	1090	687	627	642
23	594	922	853	1070	860	1570	325	5450	856	600	627	640
24	613	898	871	1050	883	1230	323	7350	685	634	607	601
25	616	894	879	1030	887	1220	347	8140	837	652	637	537
26	616	898	891	902	1020	1100	341	10000	581	658	619	410
27	616	860	891	891	1030	1020	348	11400	406	669	630	405
28	603	864	879	898	1030	734	364	13400	530	657	614	375
29	569	868	871	894	1000	719	748	13100	407	657	627	407
30	524	860	887	894	---	713	4250	13500	422	645	624	375
31	563	---	766	894	---	688	---	14500	---	635	646	---
TOTAL	15011	22557	26978	31546	24647	36584	78439	216520	256584	15878	20207	18746
MEAN	484	752	870	1018	850	1180	2615	6985	8553	512	652	625
MAX	625	922	906	1380	1030	1700	6910	14500	19900	687	948	1140
MIN	399	594	766	800	729	688	323	1960	406	332	584	375
AC-FT	29770	44740	53510	62570	48890	72560	155600	429500	508900	31490	40080	37180

CAL YR 1979 TOTAL 1033861 MEAN 2832 MAX 10900 MIN 316 AC-FT 2051000
WTR YR 1980 TOTAL 763697 MEAN 2087 MAX 19900 MIN 323 AC-FT 1515000

13090000 SNAKE RIVER NEAR KIMBERLY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV 07...	0830	697	623	8.1	6.0	10.5	240	9	56	24	50	42
DEC 11...	1030	710	669	--	-2.5	7.5	--	--	--	--	--	--
JAN 15...	1455	1290	602	--	6.0	6.0	--	--	--	--	--	--
MAY 21...	0945	7040	463	7.7	21.0	17.0	190	39	46	18	27	23
SEP 19...	1400	696	525	--	22.0	18.0	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
NOV 07...	1.4	7.0	230	69	29	.7	36	421	.57	792	2.4	.070
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	.9	4.4	150	45	37	.7	11	281	.38	5340	.43	.060
SEP 19...	--	--	--	--	--	--	--	--	--	--	--	--

13091000 BLUE LAKES SPRING NEAR TWIN FALLS, ID

LOCATION.--Lat 42°36'53", long 114°28'06", in NE¼NW¼SE¼ sec.28, T.9 S., R.17 E., Jerome County, Hydrologic Unit 17040212, on left bank at outlet of upper Blue Lake, 0.6 mi (0.9 km) upstream from mouth, 1.2 mi (1.9 km) northwest of Perrine Memorial Bridge, 3.5 mi (5.6 km) north of Twin Falls, and 610.5 mi (982.3 km) upstream from mouth of Snake River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1950 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,300 ft (1,010 m), from topographic map.

REMARKS.--Records fair except those for June and July, which are poor. No regulation or diversion above station.

AVERAGE DISCHARGE.--30 years, 213 ft^3/s (6.032 m^3/s), 154,300 acre-ft/yr (190 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 256 ft^3/s (7.25 m^3/s) Nov. 10, 11, 1951, Oct. 24 to Nov. 13, 1952, Sept. 29, 30, 1953, Oct. 23, 24, 1957; minimum daily, 166 ft^3/s (4.70 m^3/s) May 26, June 1-3, 7-9, 1979.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	212	216	212	202	199	187	178	169	186	193	201	212
2	212	216	208	202	199	187	178	169	186	193	202	212
3	212	216	212	205	199	187	178	169	187	193	203	212
4	212	216	208	205	199	187	178	169	187	193	204	212
5	216	216	208	205	193	187	178	170	187	194	205	212
6	220	216	208	202	193	187	178	170	187	194	205	212
7	220	212	208	202	193	187	175	171	187	194	205	212
8	220	212	208	202	193	187	175	171	188	194	205	212
9	220	216	212	202	193	187	175	172	188	195	205	212
10	220	212	208	202	193	184	175	173	188	195	208	212
11	220	212	205	202	193	184	175	174	188	195	208	212
12	220	212	205	202	193	184	175	174	189	195	208	212
13	220	212	205	202	193	184	175	175	189	195	208	216
14	220	212	205	202	193	184	175	176	189	196	208	212
15	220	216	205	202	190	184	172	176	189	196	208	212
16	220	212	205	202	193	181	172	177	189	196	212	216
17	220	212	205	202	193	181	172	178	190	196	212	216
18	220	212	205	202	193	181	172	179	190	197	212	216
19	220	212	205	199	193	181	175	180	190	197	212	216
20	220	212	205	199	193	181	175	181	190	197	212	216
21	220	212	202	202	190	181	175	181	191	197	212	216
22	220	212	202	202	190	181	175	181	191	198	212	216
23	216	212	202	202	190	181	172	184	191	198	212	216
24	216	212	202	199	190	181	172	184	191	198	212	216
25	216	208	205	199	187	181	172	185	191	198	212	216
26	216	208	205	199	187	181	172	185	192	199	212	216
27	220	212	205	199	187	181	172	185	192	199	212	216
28	220	212	205	199	187	181	172	185	192	199	208	216
29	220	212	205	199	187	181	172	186	192	200	208	216
30	220	212	205	199	---	178	172	186	193	200	208	216
31	220	---	202	199	---	178	---	186	---	200	212	---
TOTAL	6768	6384	6382	6241	5576	5677	5232	5501	5680	6084	6463	6424
MEAN	218	213	206	201	192	183	174	177	189	196	208	214
MAX	220	216	212	205	199	187	178	186	193	200	212	216
MIN	212	208	202	199	187	178	172	169	186	193	201	212
AC-FT	13420	12660	12660	12380	11060	11260	10380	10910	11270	12070	12820	12740

CAL YR 1979 TOTAL 70646 MEAN 194 MAX 220 MIN 166 AC-FT 140100
WTR YR 1980 TOTAL 72412 MEAN 198 MAX 220 MIN 169 AC-FT 143600

NOTE.--No gage-height record Dec. 10-11, May 4-20, May 23 to Aug. 5.

13091000 BLUE LAKES SPRING NEAR TWIN FALLS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1968-69.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV 06...	1510	216	633	7.6	15.5	15.0	240	51	62	21	39	34
DEC 11...	1630	205	597	--	.0	15.0	--	--	--	--	--	--
JAN 25...	1315	205	574	--	.0	14.5	--	--	--	--	--	--
MAR 26...	1610	185	645	7.8	11.0	15.0	230	51	58	21	39	26
MAY 20...	1340	181	695	7.5	31.0	16.0	240	55	58	22	43	28
JUL 29...	0945	170	561	7.8	24.5	15.5	240	39	61	21	38	25
SEP 16...	1630	215	608	8.2	25.0	15.8	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
NOV 06...	1.1	7.4	190	60	43	.5	39	396	.54	231	2.2	.010
DEC 11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	1.1	8.0	180	59	45	.3	39	385	.52	189	1.8	.020
MAY 20...	1.2	7.0	180	69	46	.3	40	401	.55	197	1.8	.020
JUL 29...	1.1	7.8	200	61	50	.4	40	400	.54	184	.21	.010
SEP 16...	--	--	--	--	--	--	--	--	--	--	--	--

13093095 ROCK CREEK NEAR MOUTH, NEAR TWIN FALLS, ID

LOCATION.--Lat 42°37'25", long 114°31'58", in SW¼SW¼ sec.24, T.9 S., R.16 E., Twin Falls County, Hydrologic Unit 17040212, on right bank 0.8 mi (1.3 km) upstream from mouth, and 6 mi (10 km) northwest of Twin Falls.

DRAINAGE AREA.--300 mi² (777 km²).

PERIOD OF RECORD.--July 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3,150 ft (960 m), from topographic map. Record obtained at site 2 mi (3 km) upstream 1922-47; records not comparable.

REMARKS.--Records good except those for July to September, which are fair. Flow partially regulated by fish hatchery and irrigation waste flow above station. Many diversions above station for irrigation.

AVERAGE DISCHARGE.--5 years, 205 ft³/s (5.806 m³/s), 148,500 acre-ft/yr (183 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,120 ft³/s (60.0 m³/s) from slope-area measurement after failure of irrigation canal, May 12, 1978, gage height, 9.08 ft, (2.768 m); minimum, 72 ft³/s (2.04 m³/s) Jan. 30, 1979, gage height, 3.30 ft (1.006 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 482 ft³/s (13.7 m³/s) June 4, gage height, 6.09 ft (1.856 m); minimum, 80 ft³/s (2.27 m³/s) Jan. 30, gage height, 3.44 ft (1.049 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)

3.4	76	6.0	480
4.0	154	7.0	711
5.0	313	8.1	1130

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	221	138	110	96	101	89	278	382	221	264	278
2	288	216	143	110	98	104	88	260	434	225	270	273
3	278	217	146	110	101	107	86	246	451	233	272	268
4	276	214	146	108	102	102	86	246	470	238	276	264
5	275	201	148	108	103	102	88	241	441	249	276	270
6	275	192	146	107	106	104	89	208	434	248	262	268
7	275	184	148	107	104	107	88	214	419	253	248	292
8	272	182	146	108	99	97	88	216	414	243	254	307
9	268	179	141	111	93	95	88	249	391	233	245	296
10	265	172	144	116	91	94	90	259	379	217	246	301
11	265	172	135	104	95	96	85	316	376	227	251	327
12	267	168	131	126	95	91	85	323	335	225	248	324
13	270	165	129	141	97	90	87	291	320	232	251	337
14	270	163	129	180	97	90	94	297	307	235	260	335
15	273	160	134	151	96	90	102	316	315	232	264	329
16	270	163	131	140	96	84	119	369	294	237	264	316
17	273	169	131	149	102	85	131	437	278	235	275	316
18	284	161	131	148	111	86	155	393	272	235	286	316
19	307	157	131	137	115	85	188	394	265	237	284	307
20	289	154	128	121	116	85	214	363	265	241	280	299
21	264	151	129	118	116	86	251	340	260	253	278	296
22	259	151	129	121	118	85	286	318	264	251	280	288
23	254	158	123	115	110	83	297	329	257	243	280	286
24	249	160	126	114	103	85	329	404	253	253	288	283
25	251	160	125	116	99	87	312	415	248	253	294	280
26	240	165	118	110	102	85	289	412	227	259	294	280
27	238	151	114	106	101	87	272	396	230	267	286	275
28	238	137	110	98	99	88	273	391	230	276	281	272
29	235	134	108	101	98	87	276	393	230	257	281	262
30	227	134	108	90	---	87	281	398	221	251	283	259
31	230	---	110	93	---	87	---	366	---	260	270	---
TOTAL	8208	5111	4056	3674	2959	2842	5006	10078	9662	7519	8391	8804
MEAN	265	170	131	119	102	91.7	167	325	322	243	271	293
MAX	307	221	148	180	118	107	329	437	470	276	294	337
MIN	227	134	108	90	91	83	85	208	221	217	245	259
AC-FT	16280	10140	8050	7290	5870	5640	9930	19990	19160	14910	16640	17460

CAL YR 1979 TOTAL 71960 MEAN 197 MAX 1120 MIN 81 AC-FT 142700
WTR YR 1980 TOTAL 76310 MEAN 208 MAX 470 MIN 83 AC-FT 151400

13093500 CEDAR DRAW NEAR FILER, ID

LOCATION.--Lat 42°37'25", long 114°39'05", in SW¼SW¼ sec.24, T.9 S., R.15 E., Twin Falls County, Hydrologic Unit 17040212, on left bank just upstream from county road bridge, 2.8 mi (4.5 km) upstream from mouth and 4.5 mi (7.2 km) northwest of Filer.

PERIOD OF RECORD.--July 1955 to July 1958, October 1979 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 3,525 ft (1,074 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record Oct. 1 to Nov. 8, Mar. 26 to Apr. 22, and Apr. 27-29, which are fair. Flow is principally waste and return flow from irrigation and stock water delivered to adjacent lands by Twin Falls Canal Co., and is affected by operation of laterals and canals upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 433 ft³/s (12.3 m³/s) May 18, 1957, gage height, 3.57 ft (1.088 m); minimum, 14 ft³/s (0.40 m³/s) Apr. 5, 1958; minimum gage height 0.37 ft (0.113 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 351 ft³/s (9.94 m³/s) Sept. 24, gage height, 3.13 ft (0.954 m); gage height, 3.14 ft (0.957 m) May 27; minimum discharge, 19 ft³/s (0.54 m³/s) Mar. 7, gage height, 0.48 ft (0.146 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)

Oct. 1 to June 26		June 27 to Sept. 30	
0.6	26	0.9	47
1.0	54	1.3	76
1.5	93	1.9	133
2.0	142	2.5	224
3.0	255	3.1	344

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	110	46	36	32	30	40	128	86	55	58	95
2	120	110	46	36	31	31	40	125	122	53	60	98
3	120	110	46	36	31	32	40	107	102	54	63	77
4	120	110	45	36	31	32	40	81	117	58	62	110
5	120	110	46	36	31	32	40	107	153	60	60	146
6	120	80	45	36	32	33	40	61	60	61	60	128
7	120	60	44	36	32	28	40	80	61	62	59	124
8	120	53	43	36	31	31	40	106	78	62	61	172
9	120	52	44	37	30	31	40	131	64	58	58	129
10	120	53	42	38	30	32	42	148	62	58	62	125
11	115	51	43	35	30	33	45	131	59	59	61	212
12	115	50	42	41	30	33	50	194	86	57	56	271
13	115	50	42	42	30	33	50	221	78	55	55	207
14	115	50	42	41	30	34	55	210	91	58	60	217
15	115	50	40	36	30	34	55	183	97	58	63	237
16	115	51	39	35	30	33	60	209	119	54	61	192
17	115	50	40	38	31	34	60	221	90	55	65	135
18	115	50	40	35	33	36	65	219	66	58	75	152
19	115	48	40	34	32	35	65	200	67	58	79	174
20	115	48	39	32	32	36	70	153	65	60	62	179
21	115	49	40	33	32	35	75	179	66	64	62	224
22	115	50	40	32	31	36	80	163	65	62	62	202
23	115	50	40	32	30	36	45	121	62	62	59	297
24	115	50	41	33	30	36	87	165	62	66	62	337
25	115	50	39	34	30	39	81	201	63	63	74	244
26	110	45	36	34	30	39	156	236	58	67	68	180
27	110	45	36	34	30	39	185	179	60	69	70	128
28	110	46	35	33	31	39	182	97	60	71	70	125
29	110	45	35	33	30	39	179	118	60	66	82	123
30	110	46	35	33	---	39	155	136	59	62	84	119
31	110	---	35	33	---	39	---	73	---	59	86	---
TOTAL	3585	1822	1266	1096	893	1069	2202	4683	2338	1864	2019	5159
MEAN	116	60.7	40.8	35.4	30.8	34.5	73.4	151	77.9	60.1	65.1	172
MAX	120	110	46	42	33	39	185	236	153	71	86	337
MIN	110	45	35	32	30	28	40	61	58	53	55	77
AC-FT	7110	3610	2510	2180	1770	2120	4370	9290	4640	3700	4000	10230

WTR YR 1980 TOTAL 27998 MEAN 76.5 MAX 337 MIN 28 AC-FT 55530

13094000 SNAKE RIVER NEAR BUHL, ID

LOCATION.--Lat 42°39'58", long 114°42'41", in NW¼NW¼ sec.9, T.9 S., R.15 E., Twin Falls County, Hydrologic Unit 17040212, on left bank 2 mi (3.2 km) downstream from Niagara Springs, 3.8 mi (6.1 km) upstream from outlet of Clear Lakes, 6 mi (9.7 km) northeast of Buhl, and at mile 596.8 (960.3 km).

PERIOD OF RECORD.--December 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,951.9 ft (899.74 m) National Geodetic Vertical Datum of 1929 (stadia levels). Dec. 12, 1946, to July 13, 1965, at datum 1.00 ft (0.305 m) higher. Prior to Jan. 17, 1947, nonrecording gage 40 ft upstream.

REMARKS.--Records good. Flow regulated by American Falls Reservoir 116.8 mi (187.9 km) upstream (see sta 13076500). Diurnal fluctuation caused by hydroelectric plants upstream. No diversion except by small ranch ditches between this station and station at Milner, where at times practically entire flow is diverted during irrigation seasons. Diversions above station for irrigation of about 2,030,000 acres (822,000 hm²) of which about 542,000 acres (219,000 hm²) are by withdrawals from ground water and about 230,000 acres (93,000 hm²) are irrigated below station. In addition, about 26,000 acres (11,000 hm²) are irrigated above station by diversions from Salmon Falls Creek. Considerable water leaks into the Snake Plain aquifer upstream, some of which returns above the station.

AVERAGE DISCHARGE.--33 years, 5,046 ft³/s (142.9 m³/s), 3,653,000 acre-ft/yr (4,504 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,700 ft³/s (671 m³/s) June 24, 1964, gage height, 11.54 ft (3.517 m, present datum); minimum, 1,580 ft³/s (44.7 m³/s) Mar. 28, 1963, gage height, 0.83 ft (0.253 m, present datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,000 ft³/s (623 m³/s) June 7, gage height, 10.99 ft (3.350 m); minimum, 1,940 ft³/s (54.9 m³/s) Mar. 30, gage height, 1.45 ft (0.442 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 1 to Jan. 29)

1.4	1910	6.0	8500
2.0	2380	8.0	13400
4.0	4760	11.0	22000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2360	2360	2290	2110	2160	2270	2010	8880	17400	2050	2440	2640
2	2360	2340	2300	2160	2160	2280	2040	8030	17400	2020	2480	2630
3	2350	2370	2310	2180	2160	2300	2030	5260	18800	2080	2460	2610
4	2310	2420	2350	2170	2170	2240	2050	3730	19600	2060	2510	2600
5	2310	2360	2310	2160	2150	2280	4380	4330	21100	2060	2440	2670
6	2310	2290	2320	2180	2040	2240	5990	4100	21700	2070	2510	2650
7	2260	2310	2310	2140	2110	2290	6280	3490	21600	2070	2470	2650
8	2270	2340	2310	2130	2090	2280	7560	3740	21300	2080	2370	2800
9	2250	2280	2300	2180	2070	2260	8310	4260	21200	2060	2390	2780
10	2250	2250	2320	2260	2080	2260	8410	4720	20500	2000	2350	2820
11	2260	2230	2320	2260	2100	2270	7150	5780	17600	2030	2390	2920
12	2260	2220	2230	2210	2100	2300	6740	7830	14100	2030	2410	2590
13	2270	2240	2220	2360	2030	2250	6810	9630	10000	2050	2340	3140
14	2260	2220	2260	2660	2040	2280	6760	11400	9510	2070	2360	3190
15	2300	2220	2270	2570	2030	2620	6190	11500	7660	2070	2380	2960
16	2310	2190	2260	2560	2030	2820	4900	11400	6100	2220	2390	2860
17	2320	2230	2260	2550	2060	2830	4790	11300	6190	2290	2440	2750
18	2340	2230	2230	2570	2080	2910	3560	9860	7170	2300	2700	2780
19	2360	2230	2260	2540	2090	2840	2610	8770	6280	2320	2790	2760
20	2430	2210	2260	2610	2100	2790	2170	8690	5540	2350	2550	2780
21	2420	2240	2220	2580	2110	2860	2050	9040	4180	2390	2500	2830
22	2420	2360	2240	2560	2160	2890	2030	7900	3030	2370	2520	2810
23	2530	2410	2260	2440	2150	2860	1970	7710	2730	2420	2500	2850
24	2460	2410	2220	2360	2140	2610	2050	9100	2510	2360	2500	2860
25	2440	2400	2240	2350	2150	2480	2080	10500	2390	2390	2510	2740
26	2440	2370	2230	2270	2180	2420	2140	11900	2430	2420	2520	2580
27	2430	2360	2230	2170	2280	2330	2170	13800	2210	2490	2500	2450
28	2420	2300	2220	2150	2290	2250	2160	15300	2100	2500	2500	2400
29	2420	2270	2210	2160	2300	2000	2120	15500	2170	2440	2520	2350
30	2370	2290	2200	2160	---	2000	4020	15500	2060	2430	2540	2350
31	2340	---	2200	2140	---	2010	---	16500	---	2420	2590	---
TOTAL	72830	68950	70160	71900	61660	75430	123530	279450	316560	68910	76870	82200
MEAN	2349	2298	2263	2319	2126	2433	4118	9015	10550	2223	2480	2740
MAX	2530	2420	2350	2660	2300	2910	8410	16500	21700	2500	2790	3190
MIN	2250	2190	2200	2110	2030	2000	1970	3490	2060	2000	2340	2350
AC-FT	144500	136800	139200	142600	122300	149600	245000	554300	627900	136700	152500	163000

CAL YR 1979 TOTAL 1576330 MEAN 4319 MAX 12000 MIN 1850 AC-FT 3127000
WTR YR 1980 TOTAL 1368450 MEAN 3739 MAX 21700 MIN 1970 AC-FT 2714000

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID

LOCATION.--Lat 42°42'29", long 114°48'35", in SW¼NW¼NW¼ sec.28, T.8 S., R.14 E., Gooding County, Hydrologic Unit 17040212, on left bank 150 ft (46 m) downstream from waterfall, at mile 0.5 (0.8 km), 0.8 mi (1.3 km) downstream from source, 7.5 mi (12.1 km) southwest of Wendell, and 588.8 mi (947.4 km) upstream from mouth of Snake River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1950 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,950 ft (899 m), from topographic map.

REMARKS.--Records good except those for June and July, which are fair. No regulation or surface diversion above station. Discharge affected by variable surface waste from irrigation, which flows over rimrocks into springs above station.

AVERAGE DISCHARGE.--30 years, 404 ft³/s (11.44 m³/s), 292,700 acre-ft/yr (361 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 483 ft³/s (13.68 m³/s) Oct. 9, 14, 15, 18, 19, 1965; minimum daily, 341 ft³/s (9.66 m³/s) May 22-24, 1979.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407	411	397	381	369	361	356	351	356	366	371	390
2	408	411	397	380	369	362	355	351	356	366	372	392
3	408	411	395	380	369	362	355	349	356	366	374	391
4	408	411	395	380	368	362	355	349	357	367	374	391
5	409	410	395	380	367	361	355	348	357	367	375	391
6	409	409	395	379	368	361	355	347	357	367	375	391
7	410	410	394	379	367	361	354	346	358	368	375	394
8	410	410	393	379	367	361	353	347	358	368	375	394
9	409	410	393	379	367	361	353	347	358	368	375	394
10	409	409	394	380	366	360	353	347	359	369	376	395
11	409	409	392	378	366	361	353	349	359	369	378	397
12	409	407	391	379	366	360	352	349	359	369	377	398
13	409	407	390	378	367	360	352	349	360	370	377	399
14	409	407	390	378	367	360	352	351	360	370	377	399
15	409	405	390	377	366	359	352	351	360	370	377	401
16	409	406	389	376	365	359	351	351	361	371	378	402
17	409	407	388	376	366	359	351	351	361	371	379	403
18	411	406	388	376	366	359	352	351	361	371	380	403
19	413	405	388	374	366	359	353	352	362	372	382	403
20	413	403	388	373	365	358	353	352	362	372	382	403
21	412	402	388	373	365	358	354	352	362	372	383	404
22	411	401	388	372	365	358	353	352	363	373	383	403
23	411	402	386	371	364	358	353	353	363	373	383	404
24	412	402	386	372	363	357	353	353	363	373	383	404
25	413	401	385	373	363	357	352	353	364	374	383	404
26	412	402	384	373	363	357	351	354	364	375	385	404
27	412	399	383	373	363	357	351	354	364	377	387	404
28	413	398	382	373	363	357	351	354	365	373	387	405
29	413	397	383	373	362	356	351	355	365	369	387	405
30	411	397	382	373	---	357	351	355	365	369	387	405
31	411	---	381	372	---	357	---	355	---	369	388	---
TOTAL	12718	12165	12070	11660	10608	11135	10585	10878	10815	11474	11765	11973
MEAN	410	406	389	376	366	359	353	351	361	370	380	399
MAX	413	411	397	381	369	362	356	355	365	377	388	405
MIN	407	397	381	371	362	356	351	346	356	366	371	390
AC-FT	25230	24130	23940	23130	21040	22090	21000	21580	21450	22760	23340	23750

CAL YR 1979 TOTAL 136148 MEAN 373 MAX 413 MIN 341 AC-FT 270000
WTR YR 1980 TOTAL 137846 MEAN 377 MAX 413 MIN 346 AC-FT 273400

NOTE.--No gage-height record May 20 to July 24.

13095500 BOX CANYON SPRINGS NEAR WENDELL, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.

REMARKS.--Miscellaneous water-quality data published for water years 1970-78.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
NOV 06...	1115	414	410	7.5	14.0	15.0	160	22	37	17	21	32
JAN 25...	1030	366	353	--	.5	14.5	--	--	--	--	--	--
MAY 20...	1020	365	433	7.3	21.0	15.0	160	30	36	17	22	23
JUL 24...	1045	373	379	8.6	20.0	14.5	150	13	35	16	20	22
SEP 18...	0930	409	371	7.7	15.5	14.5	160	17	35	17	21	22

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 06...	.7	4.2	140	38	15	.8	34	256	.35	286	1.1	.010
JAN 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	.8	3.8	130	35	20	.6	33	249	.34	245	.71	.020
JUL 24...	.7	4.0	140	35	20	.7	34	254	.35	256	1.2	.010
SEP 18...	.7	3.8	140	36	20	.6	35	256	.35	283	.77	.060

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV

LOCATION.--Lat 41°56'40", long 114°41'15", in NE¼SW¼ sec.23, T.47 N., R.64 E., Elko County, Hydrologic Unit 17040213, on right bank in canyon, 630 ft (192 m) downstream from bridge on U.S. Highway 93, 550 ft (168 m) downstream from Shoshone Creek, and 5 mi (8 km) north of San Jacinto.

DRAINAGE AREA.--1,450 mi² (3,760 km²), approximately. Mean altitude, 6,350 ft (1,935 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1909 to June 1910 (gage heights only), June 1910 to September 1916, October 1918 to current year. Monthly discharge only for some periods published in WSP 1317. Prior to October 1910, published as Salmon Falls "River."

REVISED RECORDS.--WSP 1934: 1943(M).

GAGE.--Water-stage recorder. Altitude of gage is 5,120 ft (1,561 m) by barometer. Prior to June 6, 1910, nonrecording gage at nearby site at different datum. June 6, 1910, to Sept. 30, 1916, Oct. 1, 1918, to Aug. 28, 1964, water-stage recorder at site 35 ft (11 m) upstream at same datum.

REMARKS.--Records good. Diversions above station for irrigation of about 18,200 acres (7,370 hm²) 1966 determination. Salmon Dam of Salmon River Canal Co. is 15 mi (24 km) downstream (see sta 13106500).

AVERAGE DISCHARGE.--68 years (1911-16, 1919-80), 141 ft³/s (3.993 m³/s), 102,200 acre-ft/yr (126 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,430 ft³/s (68.8 m³/s) May 18, 1975, gage height, 10.83 ft (3.301 m); maximum gage height, 12.65 ft (3.856 m) Feb. 12, 1962; minimum, 2.6 ft³/s (0.074 m³/s) Sept. 4, 1961, gage height, 3.37 ft (1.027 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,430 ft³/s (40.5 m³/s) Jan. 14, gage height, 9.39 ft (2.862 m); minimum daily, 23 ft³/s (0.651 m³/s) Aug. 31 and Sept. 9.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 3 to Sept. 30)

4.0	23	6.0	268
4.5	58	7.0	506
5.0	109	8.0	830
5.5	179	9.0	1240

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	62	53	63	97	190	120	710	576	180	47	27
2	41	60	58	66	105	180	137	664	604	194	52	29
3	40	59	64	66	107	183	139	644	728	191	45	31
4	41	62	66	67	110	176	144	680	746	192	42	27
5	41	63	66	66	115	166	150	697	834	180	44	26
6	41	62	66	63	118	163	171	667	809	171	50	25
7	41	62	67	55	135	147	180	687	753	154	48	25
8	41	61	66	69	119	136	174	738	686	140	48	24
9	42	59	66	66	105	129	172	734	629	136	48	23
10	43	58	66	67	101	123	182	724	587	125	41	35
11	44	57	58	54	98	125	198	714	577	114	40	75
12	44	57	53	113	97	133	193	794	571	104	36	58
13	45	57	58	720	98	127	198	772	561	94	33	50
14	46	57	61	1180	101	128	224	690	544	87	31	48
15	47	57	63	827	180	131	284	654	534	83	32	49
16	48	57	61	305	429	127	333	661	493	78	33	49
17	48	58	61	217	272	114	391	693	445	74	34	49
18	48	60	60	188	333	114	460	690	401	71	35	50
19	53	58	60	129	582	123	564	728	394	67	40	50
20	67	52	62	118	353	110	638	621	402	64	40	51
21	77	46	63	120	231	105	717	603	374	61	38	50
22	68	50	64	124	198	111	794	609	357	59	35	50
23	65	61	54	119	172	115	751	651	348	57	34	49
24	62	58	60	115	151	118	744	745	323	55	33	49
25	60	59	61	113	140	107	751	740	300	55	33	49
26	60	63	60	109	146	101	690	678	277	54	32	49
27	59	53	58	100	171	102	638	605	255	53	29	49
28	60	39	52	73	215	108	667	564	236	51	29	49
29	61	38	46	88	214	107	703	538	216	47	26	48
30	60	50	46	86	---	118	744	519	193	44	26	48
31	61	---	53	86	---	111	---	520	---	45	23	---
TOTAL	1595	1695	1852	5632	5293	4028	12251	20734	14753	3080	1157	1291
MEAN	51.5	56.5	59.7	182	183	130	408	669	492	99.4	37.3	43.0
MAX	77	63	67	1180	582	190	794	794	834	194	52	75
MIN	40	38	46	54	97	101	120	519	193	44	23	23
AC-FT	3160	3360	3670	11170	10500	7990	24300	41130	29260	6110	2290	2560

CAL YR 1979 TOTAL 60090 MEAN 165 MAX 850 MIN 21 AC-FT 119200
WTR YR 1980 TOTAL 73361 MEAN 200 MAX 1180 MIN 23 AC-FT 145500

13105000 SALMON FALLS CREEK NEAR SAN JACINTO, NV--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1973-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
NOV 05...	1545	64	244	7.4	11.5	10.5	89	0	27	5.3	14	29
DEC 10...	1630	65	232	--	-1.0	4.5	--	--	--	--	--	--
JAN 14...	1715	1240	75	--	.0	3.0	--	--	--	--	--	--
MAR 25...	1815	107	186	--	3.0	8.0	--	--	--	--	--	--
MAY 19...	1835	646	40	7.8	26.5	16.0	31	1	9.2	2.0	6.3	25
JUL 23...	1045	67	194	--	23.5	18.5	--	--	--	--	--	--
SEP 12...	1335	57	256	--	22.5	17.5	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
NOV 05...	.6	6.2	100	15	7.2	.5	44	180	.24	31.1	.09	.020
DEC 10...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	.5	7.4	30	20	2.9	.2	38	105	.14	183	.13	.070
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--	--	--	--	--	--

13106000 SALMON RIVER CANAL CO. CANAL NEAR ROGERSON, ID

LOCATION.--Lat 42°13'10", long 114°44'20", in sec.7, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, Bureau of Land Management lands, on left bank 0.5 mi (0.8 km) downstream from Salmon River Canal Co. reservoir and 7 mi (11.3 km) west of Rogerson.

PERIOD OF RECORD.--April 1937 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,940 ft (1,506 m) by barometer. Oct. 1, 1953, to Sept. 30, 1954, nonrecording gage at same site and datum.

REMARKS.--Records excellent. Canal diverts from Salmon River Canal Co. reservoir (see sta 13106500) for irrigation of land in Salmon River Canal Co. project.

AVERAGE DISCHARGE.--43 years, 107 ft³/s (3.03 m³/s), 77,500 acre-ft/yr (95.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 660 ft³/s (18.7 m³/s) July 21-24, 1944; no flow for long periods in each year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	186	462	412	314
2	.00	.00	.00	.00	.00	.00	.00	.00	176	468	409	320
3	.00	.00	.00	.00	.00	.00	.00	.00	132	465	389	314
4	.00	.00	.00	.00	.00	.00	.00	.00	74	457	400	299
5	.00	.00	.00	.00	.00	.00	.00	.00	60	452	401	305
6	.00	.00	.00	.00	.00	.00	.00	259	23	438	401	294
7	.00	.00	.00	.00	.00	.00	.00	343	.00	449	403	217
8	.00	.00	.00	.00	.00	.00	.00	330	.00	481	400	.00
9	.00	.00	.00	.00	.00	.00	.00	334	.00	487	392	.00
10	.00	.00	.00	.00	.00	.00	.00	327	.00	511	388	.00
11	.00	.00	.00	.00	.00	.00	.00	309	147	514	394	.00
12	.00	.00	.00	.00	.00	.00	.00	296	244	219	403	.00
13	.00	.00	.00	.00	.00	.00	.00	269	257	520	423	.00
14	.00	.00	.00	.00	.00	.00	.00	273	293	543	427	.00
15	.00	.00	.00	.00	.00	.00	.00	264	298	532	440	.00
16	.00	.00	.00	.00	.00	.00	.00	255	309	520	427	.00
17	.00	.00	.00	.00	.00	.00	.00	219	325	531	407	.00
18	.00	.00	.00	.00	.00	.00	.00	213	349	536	402	.00
19	.00	.00	.00	.00	.00	.00	.00	186	350	534	392	.00
20	.00	.00	.00	.00	.00	.00	.00	189	349	525	387	.00
21	.00	.00	.00	.00	.00	.00	.00	195	363	518	374	.00
22	.00	.00	.00	.00	.00	.00	.00	206	386	514	380	.00
23	.00	.00	.00	.00	.00	.00	.00	239	384	526	402	.00
24	.00	.00	.00	.00	.00	.00	.00	232	370	535	386	.00
25	.00	.00	.00	.00	.00	.00	.00	205	376	534	347	.00
26	.00	.00	.00	.00	.00	.00	.00	192	416	538	350	.00
27	.00	.00	.00	.00	.00	.00	.00	151	421	534	335	.00
28	.00	.00	.00	.00	.00	.00	.00	170	431	504	333	.00
29	.00	.00	.00	.00	.00	.00	.00	173	438	487	332	.00
30	.00	.00	.00	.00	---	.00	.00	176	459	447	329	.00
31	.00	---	.00	.00	---	.00	---	182	---	439	318	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	6187.00	7616.00	15219	11983	2063.00
MEAN	.000	.000	.000	.000	.000	.000	.000	200	254	491	387	68.8
MAX	.00	.00	.00	.00	.00	.00	.00	343	459	543	440	320
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	219	318	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	12270	15110	30190	23770	4090

CAL YR 1979 TOTAL 43580.00 MEAN 119 MAX 523 MIN .00 AC-FT 86440
WTR YR 1980 TOTAL 43068.00 MEAN 118 MAX 543 MIN .00 AC-FT 85430

13106500 SALMON RIVER CANAL CO. RESERVOIR NEAR ROGERSON, ID

LOCATION.--Lat 42°12'40", long 114°44'00", in NE¼ sec.18, T.14 S., R.15 E., Twin Falls County, Hydrologic Unit 17040213, Bureau of Land Management lands, at Salmon Falls Dam on Salmon Falls Creek, 7.5 mi (12.1 km) west of Rogerson, and at mile 46.0 (74.0 km).

DRAINAGE AREA.--1,610 mi² (4,170 km²), approximately.

PERIOD OF RECORD.--January 1922 to current year.

GAGE.--Nonrecording gage. Datum of gage is 4,945.8 ft (1,507.5 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by gravity-section concrete-arch dam completed in 1911; storage began in 1910. Usable capacity, 182,650 acre-ft (225 hm³) between gage heights 0.0 (bottom of outlet tunnel) and 80.0 ft (24.4 m) maximum operating level. Dead storage, 48,000 acre-ft (59.2 hm³). Water is used for irrigation of lands in Salmon River Canal Co. project. Figures given herein represent usable contents.

COOPERATION.--Gage readings and capacity table furnished by Salmon River Canal Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 166,000 acre-ft (205 hm³) June 24, 1975, gage height, 75.00 ft (22.860 m); minimum observed, 125 acre-ft (0.154 hm³) Sept. 21 to Oct. 5, 1934, gage height, 0.1 ft 0.03 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 114,400 acre-ft (141 hm³) June 17-18, gage height, 57.75 ft (17.602 m); minimum observed, 24,700 acre-ft (30.5 hm³) Oct. 1, gage height, 16.90 ft (5.151 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

16.0	23,200	40.0	69,800
20.0	30,000	50.0	93,800
30.0	48,800	60.0	120,600

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24700	26400	28300	30400	39800	48400	54300	76600	100600	109700	80500	55700
2	24800	26500	28400	30500	39900	48800	54400	77900	101300	109000	79600	55000
3	---	26600	28500	30600	40000	49100	54600	79200	102100	108100	78800	54400
4	---	26700	28600	30800	40200	49400	54800	80400	103200	107400	78000	53800
5	---	26800	28600	30800	40300	49700	55000	81600	104600	106700	77200	53200
6	---	26800	28700	30900	40500	49900	55200	82800	105900	106000	76300	52600
7	24900	26900	28800	---	40700	50100	55400	83200	107500	105200	75500	52100
8	---	27000	28900	31000	40900	50400	55700	83800	108900	104300	74700	51900
9	---	---	29000	31100	41000	50600	56000	84600	110000	103600	73900	---
10	25000	27100	29000	31400	41100	50800	56200	85300	110900	102600	73100	52000
11	---	27200	29200	---	41200	51000	56500	86000	112000	101700	72300	52100
12	---	27300	29200	31500	41300	51200	56800	86800	112500	100600	71300	52200
13	---	27400	29300	31700	41300	51400	57100	87500	113100	100200	70500	52200
14	25100	---	29400	33100	41500	51600	57400	88400	113500	99200	69600	---
15	25100	27400	29500	35000	41600	51700	57800	89000	113900	98200	68600	52300
16	---	---	---	36900	41900	51900	58300	89600	114200	97100	67800	52400
17	---	27500	29600	37500	42500	52100	59000	90400	114400	96100	66900	---
18	---	27600	29700	37900	43200	52200	59600	91000	114400	94900	66000	---
19	25200	---	29700	38400	43900	52300	60500	91800	114200	93900	65200	---
20	25500	---	---	38500	45000	52500	61300	92500	114100	92800	64400	---
21	25600	27700	29800	38600	45700	52700	62700	93300	113900	91800	63700	---
22	25700	---	29900	38800	46200	52800	64100	93900	113800	90800	62900	---
23	25800	27800	30000	39000	46600	53000	65600	94600	113600	89800	62200	---
24	25800	27900	30100	39200	46900	53100	67200	95200	113400	88600	61300	---
25	25900	28000	---	39300	47100	53200	68700	96200	113000	87500	60600	---
26	26000	28100	30200	39400	47400	53400	70100	97000	112500	86400	59900	---
27	26000	---	30200	39500	47600	53500	71600	97800	112100	85300	59200	---
28	26200	28200	---	39600	47900	53600	72800	98400	111400	84200	58400	---
29	26300	---	30300	39700	48100	53900	74000	99100	110600	83200	57800	---
30	26300	28300	---	---	---	54000	75300	99600	110200	82300	57000	52400
31	26300	---	30400	39700	---	54200	---	100000	---	81300	56300	---
MAX	---	---	---	---	48100	54200	75300	100000	114400	109700	80500	---
MIN	---	---	---	---	39800	48400	54300	76600	100600	81300	56300	---
(†)	17.85	19.00	20.25	25.35	29.65	32.70	42.35	52.45	56.25	44.95	33.75	31.80
(‡)	+1600	+2000	+2100	+9300	+8400	+6100	+21100	+24700	+10200	-28900	-25000	-3900

CAL YR 1979.......... ‡ +1400
WTR YR 1980.......... ‡ +27700

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

13108150 SALMON FALLS CREEK NEAR HAGERMAN, ID

LOCATION.--Lat 42°41'47", long 114°51'15", in SW¼SE¼SE¼ sec.30, T.8 S., R.14 E., Twin Falls County, Hydrologic Unit 17040213, on left bank 25 ft (8 m) upstream from U.S. Highway 30, at mile 1.9 (3.1 km), and 8.5 mi (13.7 km) south of Hagerman.

DRAINAGE AREA.--2,120 mi² (5,490 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,900 ft (880 m), from topographic map.

REMARKS.--Records poor. Flow completely regulated by Salmon River Canal Co. reservoir 44 mi (71 km) upstream (see sta 13106500). Entire available supply is diverted above the dam for irrigation. Flow below the dam is derived from leakage past the dam and return flow from adjacent land. Several diversions by pumping from the left bank below the dam are used for irrigation of land, most of which is outside the basin. Flow past gage is partially regulated during irrigation season by small diversion dam 0.9 mi (1.4 km) upstream.

AVERAGE DISCHARGE.--10 years, 162 ft³/s (4.59 m³/s), 117,400 acre-ft/yr (145 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,390 ft³/s (96.0 m³/s) Jan. 12, 1979, gage height, 9.60 ft (2.926 m), from rating curve extended above 800 ft³/s (22.7 m³/s) on basis of slope-area measurement of peak flow; minimum, 5.8 ft³/s (0.16 m³/s) July 9, 1977, gage height, 2.51 ft (0.765 m).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 316 ft³/s (8.95 m³/s) June 6; minimum daily, 39 ft³/s (1.10 m³/s) July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	254	160	140	158	164	137	114	233	94	104	130
2	179	262	168	145	164	166	137	107	288	90	114	143
3	177	267	175	148	164	168	134	77	300	154	104	148
4	190	271	175	145	172	164	132	64	308	205	120	149
5	198	256	175	146	171	164	132	53	302	212	134	157
6	207	231	175	143	166	167	133	56	316	192	133	151
7	208	224	175	143	161	170	133	75	298	182	139	154
8	220	212	175	145	160	160	132	93	253	110	130	179
9	219	210	175	154	152	157	133	100	190	85	114	177
10	215	205	177	157	152	154	143	123	171	87	100	192
11	208	200	172	155	154	157	142	163	145	79	94	205
12	207	190	164	167	154	152	148	208	179	79	84	262
13	207	190	160	172	157	150	149	192	182	58	78	256
14	215	190	160	205	160	150	140	180	177	39	78	258
15	220	190	162	175	158	149	130	182	208	69	83	260
16	219	190	166	172	156	146	94	174	233	124	104	288
17	197	195	162	174	160	148	114	190	210	112	107	283
18	224	190	160	174	170	148	110	179	182	94	124	271
19	253	185	156	172	174	148	99	163	193	75	124	283
20	253	180	151	171	176	147	82	115	164	73	132	279
21	227	175	152	164	178	150	75	100	160	81	132	283
22	227	178	155	166	180	148	67	88	158	71	137	281
23	240	180	154	169	170	146	55	98	175	60	119	279
24	236	185	155	171	164	144	75	139	182	49	111	273
25	231	190	155	169	160	145	142	180	172	41	118	215
26	245	190	152	167	164	145	140	192	160	57	132	195
27	231	180	145	164	162	143	122	192	124	111	116	197
28	233	165	143	160	162	140	116	203	107	108	106	195
29	231	160	142	158	163	139	100	219	110	112	104	195
30	243	155	137	160	---	139	100	213	112	108	103	208
31	247	---	142	163	---	140	---	243	---	100	119	---
TOTAL	6810	6050	4975	5014	4742	4708	3546	4475	5992	3111	3497	6546
MEAN	220	202	160	162	164	152	118	144	200	100	113	218
MAX	253	271	177	205	180	170	149	243	316	212	139	288
MIN	177	155	137	140	152	139	55	53	107	39	78	130
AC-FT	13510	12000	9870	9950	9410	9340	7030	8880	11890	6170	6940	12980

CAL YR 1979 TOTAL 53645 MEAN 147 MAX 1530 MIN 15 AC-FT 106400
WTR YR 1980 TOTAL 59466 MEAN 162 MAX 316 MIN 39 AC-FT 118000

NOTE.--No gage-height record Nov. 5 to Dec. 18, Feb. 9 to Mar. 24, July 2-26.

13108150 SALMON FALLS CREEK NEAR HAGERMAN, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1968-69, 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
NOV 05...	1155	255	773	7.4	15.5	10.0	290	57	72	26	54	38
DEC 10...	1305	177	936	--	5.0	4.0	--	--	--	--	--	--
JAN 14...	1220	185	753	--	11.0	10.0	--	--	--	--	--	--
MAR 25...	1420	145	877	--	14.0	9.5	--	--	--	--	--	--
MAY 19...	1200	197	630	7.3	27.0	18.0	240	55	60	23	51	30
SEP 17...	1600	286	809	--	25.0	17.0	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV 05...	1.4	8.1	230	120	38	.9	41	510	.69	351	2.7	.060
DEC 10...	--	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	1.4	7.4	190	96	40	.8	30	429	.58	228	1.5	.170
SEP 17...	--	--	--	--	--	--	--	--	--	--	--	--

13108600 CAMAS CREEK DIVERSIONS ABOVE LONE TREE RESERVOIR NEAR DUBOIS, ID

LOCATION.--Lat 44°14'50", long 111°55'02", in SW¼SE¼SE¼ sec.25, T.11 N., R.38E., Clark County, Hydrologic Unit 17040214, on left bank 150 ft (46 m) downstream from road bridge, 0.2 mi (0.3 km) downstream from point of diversion, and 15 mi (24.1 km) northeast of Dubois.

PERIOD OF RECORD.--June 1980 to September 1980 (flood season only), discharge measurements only, April 1969 to May 1975, unpublished.

GAGE.--Water-stage recorder. Altitude of gage is 6,125 ft (1,867 m), from topographic map.

REMARKS.--Records fair. Flow controlled by headgates from Camas Creek 0.2 mi (0.3 km) upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 617 ft^3/s (17.5 m^3/s) May 5, 1969; no flow for long periods when headgates are closed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									.00			
2									215			
3									396			
4									370			
5									351			
6									297			
7									340			
8									342			
9									258			
10									223			
11									216			
12									216			
13									213			
14									196			
15									178			
16									181			
17									165			
18									62			
19									.00			
20									.00			
21									.00			
22									.00			
23									.00			
24									.00			
25									.00			
26									.00			
27									.00			
28									.00			
29									.00			
30									.00			
31									---			
TOTAL	---	---	---	---	---	---	---	---	4219.00	---	---	---
MEAN	---	---	---	---	---	---	---	---	141	---	---	---
MAX	---	---	---	---	---	---	---	---	396	---	---	---
MIN	---	---	---	---	---	---	---	---	.00	---	---	---
AC-FT	---	---	---	---	---	---	---	---	8370	---	---	---

13112000 CAMAS CREEK AT CAMAS, ID

LOCATION.--Lat 44°00'10", long 112°13'12", in SE¼SE¼ sec.21, T.8 N., R.36 E., Jefferson County, Hydrologic Unit 17040214, on left bank 150 ft (46 m) upstream from county road bridge, 250 ft (76 m) upstream from Union Pacific Railroad bridge at Camas, and about 1.1 mi (1.8 km) upstream from Beaver Creek.

DRAINAGE AREA.--400 mi^2 (1,040 km^2), approximately. Mean altitude, 6,450 ft (1,966 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1925 to October 1970, April 1971 to current year.

REVISED RECORDS.--WSP 813: 1935. WSP 1123: 1947. WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,806.84 ft (1,465.125 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 21, 1925, nonrecording gage at site 0.1 mi (0.2 km) downstream at different datum. Aug. 21, 1925, to Mar. 25, 1927, nonrecording gage and Mar. 26, 1927, to Sept. 14, 1938, water-stage recorder at site 250 ft (76 m) upstream at datum 2.01 ft (0.613 m) higher.

REMARKS.--Records good except those below 5 ft^3/s (0.142 m^3/s), which are fair. Diversions above station for irrigation of about 8,100 acres or 3,280 hm^2 (1966 determination). Water diverted into flood channel about 25 mi (40 km) upstream June 2-18.

COOPERATION.--Water-stage recorder inspected by employees of Water District 31.

AVERAGE DISCHARGE.--53 years (1927-70, 1972-80), 33.8 ft^3/s (0.957 m^3/s), 24,490 acre-ft/yr (30.2 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,220 ft^3/s (34.6 m^3/s) May 2 or 3, 1952, gage height, 6.53 ft (1.990 m); from rating curve extended above 510 ft^3/s (14.4 m^3/s); no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 620 ft^3/s (17.6 m^3/s) June 2, gage height, 5.37 ft (1.637 m); no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	244	487	2.4	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	267	585	22	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	208	452	52	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	165	481	68	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	154	429	88	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	136	322	75	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	134	270	40	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	145	426	23	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	167	261	15	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	229	174	10	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	253	144	9.8	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	185	141	2.9	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	134	139	.00	.00	.15
14	.00	.00	.00	.00	.00	.00	.00	104	126	.00	.00	.11
15	.00	.00	.00	.00	.00	.00	.00	95	108	.00	.00	3.2
16	.00	.00	.00	.00	.00	.00	.00	89	98	.00	.00	4.0
17	.00	.00	.00	.00	.00	.00	10	111	98	.00	.00	.00
18	.00	.00	.00	.00	19	.00	63	149	80	.00	.00	.00
19	.00	.00	.00	.00	45	.00	86	154	156	.00	.00	.00
20	.00	.00	.00	.00	3.1	.00	152	116	137	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	246	96	112	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	290	82	93	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	334	75	77	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	339	88	57	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	407	162	45	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	377	266	33	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	366	242	23	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	259	368	7.2	.00	.00	.00
29	.00	.00	.00	.00	.00	.00	194	411	1.3	.00	.00	.00
30	.00	.00	.00	.00	---	.00	197	439	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	473	---	.00	.00	---
TOTAL	.00	.00	.00	.00	67.10	.00	3320.00	5941	5562.50	408.10	.00	7.46
MEAN	.000	.000	.000	.000	2.31	.000	111	192	185	13.2	.000	.25
MAX	.00	.00	.00	.00	45	.00	407	473	585	88	.00	4.0
MIN	.00	.00	.00	.00	.00	.00	.00	75	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	133	.00	6590	11780	11030	809	.00	15

CAL YR 1979 TOTAL 6272.30 MEAN 17.2 MAX 387 MIN .00 AC-FT 12440
WTR YR 1980 TOTAL 15306.16 MEAN 41.8 MAX 585 MIN .00 AC-FT 30360

13112000 CAMAS CREEK AT CAMAS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1968-69, 1970-72.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
APR												
23...	1410	301	117	--	14.0	7.0	--	--	--	--	--	--
JUN												
09...	1106	256	89	--	27.5	15.5	--	--	--	--	--	--
16...	1519	96	141	8.1	24.0	19.5	59	0	17	3.9	3.3	11

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)
APR											
23...	--	--	--	--	--	--	--	--	--	--	--
JUN											
09...	--	--	--	--	--	--	--	--	--	--	--
16...	.2	1.7	63	1.9	1.2	.2	22	89	.12	23.2	.05

13113000 BEAVER CREEK AT SPENCER, ID

LOCATION.--Lat 44°21'20", long 112°10'45", in NW¼SE¼ sec.23, T.12 N., R.36 E., Clark County, Hydrologic Unit 17040214, on left bank 62 ft (19 m) upstream from State Highway 22, 0.4 mi (0.6 km) southeast of Spencer Post Office, and 2.5 mi (4.0 km) upstream from Rattlesnake Creek.

DRAINAGE AREA.--120 mi² (310 km²), approximately.

PERIOD OF RECORD.--December 1938 to September 1940 (published as "near Spencer"), October 1940 to November 1952, October 1968 to current year (no winter records 1942-52).

GAGE.--Water-stage recorder. Altitude of gage is 5,850 ft (1,783 m), by barometer. December 1938 to November 1952 nonrecording gage. Prior to October 1940, at site 1.6 mi (2.6 km) upstream at different datum.

REMARKS.--Records good except those for winter period and those below 10 ft³/s (0.28 m³/s), which are poor. Diversions above station for irrigation of about 850 acres (340 hm²), 1966 determination.

AVERAGE DISCHARGE.--14 years (1940-41, 1969-80), 42.7 ft³/s (1.209 m³/s), 30,940 acre-ft/yr (38.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft³/s (33.7 m³/s) May 18, 1975, gage height, 9.84 ft (2.999 m), from rating curve extended above 400 ft³/s (11.3 m³/s) on basis of computation of peak flow through culvert; minimum daily discharge, 0.96 ft³/s (0.027 m³/s) Aug. 6, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 467 ft³/s (13.2 m³/s) Apr. 22, gage height, 6.19 ft (1.887 m); minimum daily, 3.8 ft³/s (0.11 m³/s) Jan. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	11	7.4	5.6	5.8	9.3	13	59	156	76	31	25
2	5.9	12	8.0	5.6	6.2	9.2	14	48	204	71	42	23
3	5.5	12	8.2	5.4	6.5	9.2	15	43	226	110	30	23
4	6.0	13	8.1	5.4	6.8	9.2	17	46	230	136	27	22
5	5.8	12	7.6	5.5	6.8	9.0	20	36	212	76	26	21
6	6.0	12	7.2	4.9	6.8	8.8	18	36	197	58	24	20
7	5.7	14	7.1	4.4	6.6	8.4	16	58	217	52	22	22
8	5.9	14	7.4	4.6	6.4	7.9	16	67	156	51	22	30
9	6.5	14	7.9	5.1	6.0	7.8	16	122	134	75	22	28
10	7.5	13	8.0	5.5	5.8	8.0	17	96	121	64	21	27
11	7.7	11	6.0	5.4	6.0	9.0	18	80	118	49	19	36
12	7.4	10	4.5	5.6	6.5	9.6	19	71	136	43	19	39
13	7.4	8.1	4.5	5.8	6.6	9.8	21	57	112	42	21	53
14	7.4	7.2	4.5	6.3	6.4	9.8	23	51	104	41	20	68
15	14	6.9	4.5	6.5	6.2	9.8	30	51	112	41	23	38
16	26	7.9	4.5	6.5	6.6	9.0	50	69	129	37	27	34
17	18	9.4	5.0	6.4	7.2	9.1	70	103	104	36	27	31
18	20	12	5.8	6.2	7.8	9.2	96	97	93	36	25	29
19	24	12	6.2	5.9	8.2	9.6	125	67	109	34	32	30
20	22	10	6.2	5.5	8.2	10	188	56	119	35	33	31
21	19	8.2	6.2	5.3	8.1	10	239	51	94	32	27	37
22	18	7.8	6.1	5.2	7.9	10	283	47	88	29	25	34
23	16	8.4	6.0	5.3	7.3	10	210	60	77	29	24	31
24	16	9.6	5.7	5.3	7.2	10	179	99	76	32	24	31
25	14	9.9	6.0	5.2	7.2	10	174	107	71	33	22	28
26	14	9.0	5.9	4.9	7.5	9.7	116	162	63	30	24	27
27	13	7.2	5.3	4.5	8.0	11	80	204	60	27	26	27
28	13	6.2	4.5	3.8	9.0	12	69	170	58	26	28	26
29	13	6.2	4.5	4.1	9.2	13	62	188	56	26	25	26
30	12	6.8	4.9	4.7	---	13	70	183	61	33	24	25
31	11	---	5.5	5.2	---	13	---	144	---	31	24	---
TOTAL	374.1	300.8	189.2	165.6	204.8	303.4	2284	2728	3693	1491	786	922
MEAN	12.1	10.0	6.10	5.34	7.06	9.79	76.1	88.0	123	48.1	25.4	30.7
MAX	26	14	8.2	6.5	9.2	13	283	204	230	136	42	68
MIN	5.5	6.2	4.5	3.8	5.8	7.8	13	36	56	26	19	20
AC-FT	742	597	375	328	406	602	4530	5410	7330	2960	1560	1830

CAL YR 1979 TOTAL 7012.06 MEAN 19.2 MAX 161 MIN .96 AC-FT 13910
WTR YR 1980 TOTAL 13441.90 MEAN 36.7 MAX 283 MIN 3.8 AC-FT 26660

13114000 BEAVER CREEK AT CAMAS, ID

LOCATION.--Lat 44°00'27", long 112°13'25", in NW¼SW¼ sec.21, T.8 N., R.36 E., Jefferson County, Hydrologic Unit 17040214, on right bank 0.1 mi (0.2 km) west of railroad crossing at Camas and about 1.4 mi (2.3 km) upstream from mouth.

DRAINAGE AREA.--510 mi² (1,320 km²), approximately. Mean altitude, 6,190 ft (1,887 m).

PERIOD OF RECORD.--April 1921 to current year (flood season only 1971-80).

GAGE.--Water-stage recorder. Altitude of gage is 4,790 ft (1,460 m), by barometer. Prior to Dec. 22, 1949, nonrecording gages at nearby sites at present datum.

REMARKS.--Records good. Flow affected by irrigation diversions above Dubois, 14 mi (22.5 km) above station, and by heavy channel losses below Dubois. Diversions above station for irrigation of about 5,800 acres (2,350 hm²), 1966 determination.

COOPERATION.--Occasional inspections of recorder by Watermaster of Water District 31.

AVERAGE DISCHARGE.--49 years (1922-70), 6.00 ft³/s (0.170 m³/s), 4,350 acre-ft/yr (5.36 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 322 ft³/s (9.12 m³/s) May 18, 1975, gage height, 4.52 ft (1.378 m); no flow for long periods in each year; no flow for entire water years 1929, 1931-37, 1940, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 199 ft³/s (5.64 m³/s) June 5, gage height, 3.92 ft (1.195 m); no flow for long periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							.00	24	128	2.4	.00	.00
2							.00	14	162	8.7	.00	.00
3							.00	7.8	193	17	.00	.00
4							.00	5.1	195	48	.00	.00
5							.00	1.7	189	32	.00	.00
6							.00	.00	148	12	.00	.00
7							.00	.00	180	5.3	.00	.00
8							.00	3.6	141	1.4	.00	.00
9							.00	26	113	.39	.00	.00
10							.00	79	104	10	.00	.00
11							.00	61	101	7.2	.00	.00
12							.00	54	113	2.4	.00	.00
13							.00	38	105	.04	.00	.00
14							.00	22	83	.00	.00	.00
15							.00	13	75	.00	.00	.00
16							.00	15	80	.00	.00	.00
17							.00	43	40	.00	.00	.00
18							.00	65	26	.00	.00	.00
19							.00	38	23	.00	.00	.00
20							.00	18	30	.00	.00	.00
21							44	4.7	23	.00	.00	.00
22							118	.00	12	.00	.00	.00
23							115	.00	12	.00	.00	.00
24							83	6.2	19	.00	.00	.00
25							73	54	14	.00	.00	.00
26							56	94	8.7	.00	.00	.00
27							33	133	5.8	.00	.00	.00
28							22	124	4.3	.00	.00	.00
29							12	93	.13	.00	.00	.00
30							12	141	.00	.00	.00	.00
31							---	113	---	.00	.00	---
TOTAL	---	---	---	---	---	---	568.00	1291.10	2327.93	146.83	.00	.00
MEAN	---	---	---	---	---	---	18.9	41.6	77.6	4.74	.000	.000
MAX	---	---	---	---	---	---	118	141	195	48	.00	.00
MIN	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
AC-FT	---	---	---	---	---	---	1130	2560	4620	291	.00	.00

13115000 MUD LAKE NEAR TERRETON, ID

LOCATION.--Lat 43°53'25", long 112°21'28", in NE¼SE¼ sec.32, T.7 N., R.35 E., Jefferson County, Hydrologic Unit 17040215, at mouth of Camas Creek, 4.4 mi (7.1 km) northeast of First Owsley pumphouse, and 5.5 mi (8.8 km) northeast of Terreton.

DRAINAGE AREA.--1,130 mi² (2,930 km²), approximately, not including Medicine Lodge Creek.

PERIOD OF RECORD.--April 1921 to current year.

REVISED RECORDS.--WSP 1567: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,774.99 ft (1,455.417 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 31, 1931, nonrecording gages at or near pumphouse (now used as a supplementary gage) at same datum. Oct. 31, 1931, to Sept. 30, 1954, water-stage recorder at site 2.7 mi (4.3 km) southwest and 2 mi (3.2 km) north of First Owsley pumphouse at same datum; Oct. 1, 1954, to Sept. 8, 1978, water-stage recorder at site 670 ft (204 m) north of mouth of Camas Creek at same datum.

REMARKS.--Mud Lake is a perched body of water confined by earth dikes and fed by ground water and surface tributaries augmented by well flows and surface inflow from North Lake. Water for irrigation is diverted from lake by pumping. Other irrigation diversions are made by various means from adjacent lakes and wells and Camas Creek above lake. Area of Mud Lake is varied from time to time by changes in dikes. Figures given herein represent contents above gage height -4.0 ft (-1.22 m). Capacity table prepared from surveys made by Geological Survey and adjusted for changes in dikes. High winds are frequent, and stage at recorder during wind does not usually represent the mean for the lake. For complete description of Mud Lake region, see WSP 818.

COOPERATION.--Water-stage recorder inspected by employees of Water District 31.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 61,660 acre-ft (76.0 hm³) May 5, 1923, gage height, 9.20 ft (2.804 m); practically no contents Oct. 1 to Nov. 15, 1937, due to bypassing Camas Creek (see Remarks).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 42,000 acre-ft (51.8 hm³) June 9, gage height, 8.60 ft (2.621 m); minimum contents, 6,800 acre-ft (8.38 hm³) Oct. 10, 12.

Capacity table (elevation, in feet, and contents, in acre-feet)

1.0	5,460	4.0	15,800	8.0	37,900
2.0	8,150	6.0	25,700	9.0	44,700
3.0	11,600				

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8540	7720	7720	9250	10700	12300	23400	36100	41000	29700	14300	13900
2	7970	7690	7780	9280	10800	12300	23700	36500	40900	29100	14500	14300
3	7810	7660	7810	9320	10800	12300	24200	36800	41100	28400	14100	14300
4	7630	7690	7840	9350	10900	12400	24700	37200	41500	27600	14100	14400
5	7460	7690	7840	9420	10900	12500	25400	37500	41800	27200	14100	14500
6	7320	7690	7870	9450	11000	12500	25500	37500	41600	26500	14000	14600
7	7230	7690	7910	9480	11100	12600	25800	37500	41800	25700	13900	14600
8	6900	7690	7940	9550	11100	12700	26200	37600	41900	24900	13900	14400
9	6820	7630	7940	9590	11200	12800	26600	37900	42000	24400	13900	14200
10	6800	7610	8030	9660	11300	12900	27000	38100	41900	23600	13800	14100
11	6820	7610	8030	9690	11300	13400	27500	38500	41800	22600	13800	14100
12	6800	7610	8090	9900	11300	14000	27800	38800	41500	21900	13400	13900
13	6820	7610	8150	9940	11400	14500	28300	39300	41200	21100	13300	14200
14	6820	7580	8220	9940	11400	15200	28800	39500	40900	20400	13000	14200
15	6900	7550	8280	10000	11500	15500	29100	39900	40700	19800	12800	14100
16	6900	7550	8280	10000	11600	16000	29500	40500	40500	19300	12600	14100
17	6900	7550	8340	10000	11600	16400	29900	41000	40100	18600	12500	14100
18	7070	7550	8410	10100	11600	17100	30200	41300	39500	18000	12500	14100
19	7180	7550	8470	10100	11600	17500	30800	41300	38900	17800	12500	13900
20	7290	7550	8540	10100	11800	18000	31200	41100	38300	17300	12600	13900
21	7430	7550	8600	10100	11800	18400	31700	40900	37700	16900	12700	13600
22	7520	7550	8790	10200	11800	19000	32200	40500	37000	16700	12800	13400
23	7550	7580	8820	10200	11900	19400	32800	40400	36600	16000	13000	13200
24	7580	7610	8860	10300	11900	19900	33100	40500	35800	15500	13100	13000
25	7580	7660	8990	10400	12000	20300	33800	40900	35200	15300	13100	12900
26	7490	7660	8990	10400	12000	20800	34300	40900	34600	14900	13300	12800
27	7520	7660	9020	10400	12000	21300	35000	40900	33600	14800	13600	12700
28	7630	7660	9050	10500	12100	21700	35500	40900	32400	14600	13800	12600
29	7630	7690	9080	10600	12200	22200	35800	41100	31600	14400	13600	12400
30	7610	7720	9150	10600	---	22500	36000	40600	30600	14300	13600	12300
31	7660	---	9250	10700	---	22900	---	40900	---	14500	13700	---
MAX	8540	7720	9250	10700	12200	22900	36000	41300	42000	29700	14500	14600
MIN	6800	7550	7720	9250	10700	12300	23400	36100	30600	14300	12500	12300
(†)	7660	7720	9250	10700	12200	22900	36000	40900	30600	14500	13700	12300
(‡)	-1230	+60	+1530	+1450	+1500	+10700	+13100	4900	-10300	-16100	-800	-1400

CAL YR 1979............ † -1650
WTR YR 1980............ ‡ +3410

† Contents, in acre-feet, at end of month.
‡ Change in contents, in acre-feet, at end of month.

13117020 BIRCH CREEK AT BLUE DOME INN, NEAR RENO, ID

LOCATION.--Lat 44°09'14", long 112°54'24", in NE¼SW¼ sec.32, T.10 N., R.30 E., Clark County, Hydrologic Unit 17040216, on left bank 40 ft (12 m) upstream from bridge on Highway 28, 0.2 mi (0.3 km) downstream from Blue Dome Inn, 9 mi (14 km) southeast of former Reno Post Office, and 34 mi (55 km) west of Dubois.

DRAINAGE AREA.--380 mi² (980 km²), approximately.

PERIOD OF RECORD.--June 1967 to current year (no winter records most years). Prior to June 1972 at site 40 ft (12 m) downstream at same datum.

GAGE.--Water-stage recorder. Altitude of gage is 6,050 ft (1,840 m), from topographic map.

REMARKS.--Records fair. Diversions above station for irrigation of about 280 acres (110 hm²), 1966 determination.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 149 ft³/s (4.22 m³/s) July 30, 1969, gage height, 1.56 ft (0.475 m); minimum recorded, 47 ft³/s (1.33 m³/s) June 26-29, 1977, gage height, 1.53 ft (0.466 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 79 ft³/s (2.24 m³/s) May 29, Sept. 29-30, gage height, 1.78 ft (0.543 m); minimum, 51 ft³/s (1.44 m³/s) Aug. 9; minimum gage height, 1.53 ft (0.466 m) Aug. 5-7, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	70	63	56	55
2								---	70	63	56	55
3								---	70	64	55	55
4								---	72	64	55	55
5								---	72	63	54	55
6								---	71	63	54	55
7								---	72	63	54	56
8								---	70	62	56	62
9								---	70	63	54	58
10								---	68	63	56	58
11								---	66	63	57	61
12								---	67	63	59	59
13								---	67	62	58	62
14								---	67	62	58	63
15								---	69	63	59	62
16								---	67	66	58	63
17								---	66	67	57	64
18								---	65	68	57	65
19								---	67	68	57	66
20								---	70	68	57	67
21								---	69	65	57	67
22								---	69	63	57	71
23								---	69	63	57	73
24								---	69	65	57	74
25								---	68	63	56	76
26								---	68	61	56	77
27								---	63	60	56	77
28								72	62	59	56	77
29								74	62	59	56	78
30								74	63	61	56	78
31								70	---	57	56	---
TOTAL	---	---	---	---	---	---	---	---	2038	1957	1747	1944
MEAN	---	---	---	---	---	---	---	---	67.9	63.1	56.4	64.8
MAX	---	---	---	---	---	---	---	---	72	68	59	78
MIN	---	---	---	---	---	---	---	---	62	57	54	55
AC-FT	---	---	---	---	---	---	---	---	4040	3880	3470	3860

13117030 BIRCH CREEK AT EIGHT-MILE CANYON ROAD, NEAR RENO, ID

LOCATION.--Lat 44°04'49", long 112°52'30", in sec.28, T.9 N., R.30 E., Clark County, Hydrologic Unit 17040216, Bureau of Land Management lands, 300 ft (91 m) downstream from Eight-Mile Canyon road crossing, 5.5 mi (8.8 km) downstream from Blue Dome Inn, and 14 mi (23 km) southeast of Reno.

DRAINAGE AREA.--400 mi² (1,040 km²), approximately.

PERIOD OF RECORD.--June 1967 to current year (no winter records).

GAGE.--Water-stage recorder. Altitude of gage is 5,770 ft (1,760 m), from topographic map.

REMARKS.--Records fair except those for June and July, which are poor. Diversions above station for irrigation of about 350 acres (140 hm²), 1966 determination.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 108 ft³/s (3.06 m³/s) July 31, 1969, gage height, 1.62 ft (0.494 m); minimum recorded, 11 ft³/s (0.31 m³/s) July 5, 1967, gage height, 0.97 ft (0.296 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft³/s (1.50 m³/s) Sept. 30, gage height, 1.19 ft (0.363 m); minimum, 36 ft³/s (1.01 m³/s) Aug. 11, gage height, 1.01 ft (0.308 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	48	46	43	42
2								---	48	46	42	42
3								---	49	47	41	42
4								---	50	47	42	41
5								---	50	46	40	41
6								---	49	45	40	41
7								---	50	45	40	44
8								---	49	44	39	44
9								---	48	45	40	40
10								---	47	46	38	41
11								---	46	46	37	42
12								---	47	45	38	44
13								---	48	44	37	44
14								---	48	45	39	45
15								---	49	46	40	45
16								---	48	47	40	45
17								---	47	48	39	45
18								---	47	48	39	46
19								---	47	49	40	46
20								---	49	48	39	47
21								---	49	46	41	48
22								---	48	45	43	48
23								---	48	45	42	50
24								---	48	47	43	50
25								---	48	46	43	51
26								---	47	45	43	52
27								---	46	45	43	52
28								50	45	45	43	52
29								50	45	45	42	52
30								50	46	45	43	52
31								48	---	44	43	---
TOTAL								---	1434	1421	1262	1374
MEAN								---	47.8	45.8	40.7	45.8
MAX								---	50	49	43	52
MIN								---	45	44	37	40
AC-FT								---	2840	2820	2500	2730

NOTE.--No gage-height record May 29 to July 27.

13118700 LITTLE LOST RIVER BELOW WET CREEK, NEAR HOWE, ID

LOCATION.--Lat 44°08'19", long 113°14'39", in NW¼SE¼ sec.4, T.9 N., R.27 E., Butte County, Hydrologic Unit 17040217, Bureau of Land Management lands, on right bank at Clyde School, 0.6 mi (1.0 km) downstream from Wet Creek, and 27 mi (43 km) northwest of Howe.

DRAINAGE AREA.--440 mi² (1,140 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,880 ft (1,792 m), from topographic map.

REMARKS.--Records good except those for December to March, which are poor. Diversions above station for irrigation of about 3,800 acres (1,500 hm²) of which about 2,000 acres (800 hm²) are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--22 years, 67.4 ft³/s (1.909 m³/s), 48,830 acre-ft/yr (60.2 hm³/yr).

EXTREMES for PERIOD OF RECORD.--Maximum discharge, 509 ft³/s (14.4 m³/s) June 16, 1975, gage height, 3.19 ft (0.972 m), but may have been more during period of doubtful gage-height record in 1958; maximum gage height recorded, 5.99 ft (1.826 m) Feb. 8, 1979 (ice jam); minimum discharge recorded, 2.8 ft³/s (0.079 m³/s) Dec. 13, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 321 ft³/s (9.09 m³/s) June 12, gage height, 3.08 ft (0.939 m); minimum, 11 ft³/s (0.312 m³/s) Nov. 28, gage height, 1.53 ft (0.466 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Oct. 15 to May 12;
stage-discharge relation affected by ice Nov. 26 to Dec. 3, Dec. 6-30)

1.4	12	2.1	72
1.5	16	2.4	125
1.7	30	2.7	204
1.9	48	3.0	309

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	49	15	18	20	26	35	121	210	167	62	62
2	45	40	15	18	20	28	35	125	236	162	60	61
3	46	51	15	18	20	30	35	128	236	178	60	64
4	49	52	15	19	20	31	35	128	243	167	61	61
5	48	52	15	19	19	33	35	134	264	154	59	60
6	48	52	15	17	20	33	35	139	250	149	58	58
7	48	49	15	18	20	33	35	175	233	142	56	59
8	48	47	16	18	18	33	36	189	210	142	54	69
9	48	45	16	19	18	33	36	207	223	146	54	64
10	49	47	16	19	18	33	35	204	260	144	54	63
11	48	49	13	18	18	33	36	189	294	130	53	80
12	48	40	14	19	18	32	36	170	305	123	53	75
13	48	41	14	20	19	32	35	146	282	119	53	87
14	48	38	15	20	21	33	35	137	275	115	53	120
15	49	35	15	20	22	34	36	128	279	109	62	96
16	52	35	15	19	22	32	37	137	240	101	69	85
17	51	41	15	19	21	32	40	137	233	97	62	79
18	52	33	14	20	20	35	45	143	243	97	59	77
19	53	26	15	18	20	34	49	134	282	93	72	79
20	54	32	16	19	19	36	49	139	260	88	68	78
21	52	23	16	18	19	35	52	149	246	87	60	86
22	52	21	15	20	20	35	61	173	240	83	59	81
23	52	24	15	19	21	35	65	220	230	82	59	78
24	51	21	16	19	22	35	69	253	210	83	59	77
25	51	16	17	19	23	35	70	243	195	80	58	75
26	50	15	17	19	23	35	79	230	186	77	62	73
27	51	15	16	18	23	32	87	207	178	75	62	71
28	52	14	15	17	25	34	95	204	170	73	62	70
29	52	14	15	18	25	35	107	201	164	75	62	69
30	48	14	16	20	---	34	119	192	164	79	62	69
31	49	---	18	20	---	34	---	198	---	76	62	---
TOTAL	1538	1031	475	582	594	1025	1554	5280	7041	3493	1849	2226
MEAN	49.6	34.4	15.3	18.8	20.5	33.1	51.8	170	235	113	59.6	74.2
MAX	54	52	18	20	25	36	119	253	305	178	72	120
MIN	45	14	13	17	18	26	35	121	164	73	53	58
AC-FT	3050	2040	942	1150	1180	2030	3080	10470	13970	6930	3670	4420

CAL YR 1979 TOTAL 19476 MEAN 53.4 MAX 359 MIN 10 AC-FT 38630
WTR YR 1980 TOTAL 26688 MEAN 72.9 MAX 305 MIN 13 AC-FT 52940

NOTE.--No gage-height record Dec. 31 to Mar. 26.

13118700 LITTLE LOST RIVER BELOW WET CREEK, NEAR HOWE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1973-75.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 10...	1224	48	244	--	12.5	7.0	--	--	--	--	--	--
DEC 04...	1100	15	246	8.5	-2.5	2.5	120	6	25	13	4.9	14
JAN 15...	1118	20	259	--	.0	3.5	--	--	--	--	--	--
MAR 26...	1516	36	261	--	.5	4.5	--	--	--	--	--	--
MAY 18...	1118	143	156	8.9	10.5	9.0	64	5	15	6.4	3.6	11
JUL 11...	1115	140	241	--	24.5	10.0	--	--	--	--	--	--
SEP 09...	1240	63	270	--	21.0	13.0	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 04...	.2	.8	110	4.7	4.4	.1	10	131	.18	5.45	.33	.010
JAN 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 18...	.2	.8	59	2.9	2.3	.1	13	82	.11	31.7	.58	.060
JUL 11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--	--	--	--	--

13119000 LITTLE LOST RIVER NEAR HOWE, ID

LOCATION.--Lat 43°53'10", long 113°06'00", in SW¼SE¼ sec.34, T.7 N., R.28 E., Butte County, Hydrologic Unit 17040217, Bureau of Land Management lands, on left bank 0.2 mi (0.3 km) upstream from diversion dam of Blaine County Investment Co. and 7 mi (11 km) northwest of Howe.

DRAINAGE AREA.--703 mi² (1,820 km²). Mean altitude, 7,370 ft (2,246 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1921 to current year (no winter records prior to October 1940). Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1637: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 5,020 ft (1,530 m), by barometer. Prior to Sept. 2, 1938, nonrecording gage at site 120 ft (37 m) downstream at datum 1.39 ft (0.424 m) higher.

REMARKS.--Records good except those for December to February, which are poor. Diversions above station for irrigation of about 11,500 acres (4,650 hm²) of which about 7,600 acres (3,100 hm²) are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--40 years (1941-80), 76.4 ft³/s (2.164 m³/s), 55,350 acre-ft/yr (68.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 450 ft³/s (12.7 m³/s) Aug. 11, 1936, during cloudburst, gage height, 5.4 ft (1.65 m), present site and datum from rating curve extended above 220 ft³/s (6.23 m³/s); maximum gage height observed, 6.63 ft (2.021 m) Jan. 23, 1957 (backwater from ice); minimum discharge observed, 4.1 ft³/s (0.116 m³/s) Dec. 12, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 217 ft³/s (6.15 m³/s) May 25, gage height, 3.74 ft (1.140 m); minimum daily discharge, 20 ft³/s (0.566 m³/s) Nov. 28-30 to Dec. 11.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 20-23, Nov. 27 to Dec. 4, Dec. 8 to Jan. 3, Jan. 6-12, 19-23, Jan. 26 to Feb. 23)

2.1	21	3.0	113
2.4	45	3.3	154
2.7	75	3.8	225

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	68	21	24	25	29	40	123	190	159	87	79
2	64	63	22	24	25	30	40	127	193	155	84	77
3	62	66	24	24	25	33	40	133	197	159	81	79
4	64	75	24	25	25	34	40	135	199	162	84	77
5	65	73	24	25	24	34	41	138	200	148	85	74
6	65	73	24	21	25	35	41	142	201	143	83	73
7	64	73	26	23	25	35	41	160	200	135	81	76
8	64	71	26	23	23	35	40	181	190	133	81	91
9	64	66	26	25	23	35	41	193	188	137	78	83
10	60	65	25	25	23	34	41	199	195	134	79	80
11	61	71	20	23	23	34	42	204	202	132	78	92
12	60	63	22	26	23	34	42	196	205	128	77	97
13	60	65	22	26	25	34	41	184	205	127	82	91
14	63	62	23	25	28	36	42	178	201	123	85	119
15	64	57	24	27	28	35	43	168	204	123	90	114
16	67	53	24	27	28	33	47	162	200	112	104	105
17	69	59	24	27	27	33	47	169	195	107	92	98
18	73	61	23	27	26	36	49	162	197	106	86	95
19	75	49	24	23	25	36	49	156	193	105	94	95
20	75	40	25	24	24	36	50	151	209	102	97	96
21	75	48	24	26	24	35	53	155	209	99	90	101
22	77	50	24	23	25	34	61	167	199	95	87	103
23	77	43	21	26	26	34	79	181	198	94	85	100
24	76	25	23	25	27	34	88	206	196	95	86	99
25	76	28	25	25	27	34	95	209	188	95	80	98
26	76	26	25	24	27	35	95	203	180	88	86	98
27	79	22	22	23	27	36	104	195	177	86	86	94
28	75	20	21	21	27	35	106	191	174	87	83	91
29	69	20	21	23	28	36	110	189	163	86	81	89
30	69	20	23	25	---	39	119	193	158	93	86	86
31	67	---	24	25	---	37	---	190	---	93	81	---
TOTAL	2119	1575	726	760	738	1070	1767	5340	5806	3641	2639	2750
MEAN	68.4	52.5	23.4	24.5	25.4	34.5	58.9	172	194	117	85.1	91.7
MAX	79	75	26	27	28	39	119	209	209	162	104	119
MIN	60	20	20	21	23	29	40	123	158	86	77	73
AC-FT	4200	3120	1440	1510	1460	2120	3500	10590	11520	7220	5230	5450

CAL YR 1979 TOTAL 22477 MEAN 61.6 MAX 208 MIN 20 AC-FT 44580
WTR YR 1980 TOTAL 28931 MEAN 79.0 MAX 209 MIN 20 AC-FT 57380

13119000 LITTLE LOST RIVER NEAR HOWE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967, 1969 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1967, 1969.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 10...	1412	56	336	--	8.0	9.5	--	--	--	--	--	--
DEC 04...	1342	25	413	8.0	.0	2.5	190	32	47	18	15	21
JAN 15...	1400	27	401	--	3.0	4.5	--	--	--	--	--	--
MAR 26...	1630	36	381	--	-1.0	7.5	--	--	--	--	--	--
MAY 18...	1445	153	251	8.6	13.5	13.0	120	19	28	12	6.5	10
JUL 11...	0912	133	274	--	19.0	12.5	--	--	--	--	--	--
SEP 09...	0935	80	349	--	17.5	12.0	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 10...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 04...	.5	2.5	160	30	13	.1	14	238	.32	16.1	.45	.010
JAN 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 18...	.3	1.3	100	18	5.1	.1	14	146	.20	60.3	.24	.110
JUL 11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--	--	--	--	--

13120000 NORTH FORK BIG LOST RIVER AT WILD HORSE, NEAR CHILLY, ID

LOCATION.--Lat 43°55'59", long 114°06'47", in NE¼SE¼ sec.17, T.7 N., R.20 E., Custer County, Hydrologic Unit 17040218, in Challis National Forest, on right bank 0.2 mi (.3 km) upstream from East Fork, 2 mi (3.2 km) downstream from Wild Horse damsite, and 16 mi (25.7 km) southwest of Chilly.

DRAINAGE AREA.--114 mi² (295 km²). Mean altitude, 8,540 ft (2,603 m).

PERIOD OF RECORD.--March 1944 to current year. Prior to October 1967, published as Big Lost River at Wild Horse, near Chilly.

GAGE.--Water-stage recorder. Altitude of gage is 6,820 ft (2,079 m), from topographic map.

REMARKS.--Records good. There are several small ranch diversions upstream for local irrigation.

AVERAGE DISCHARGE.--36 years, 105 ft³/s (2.974 m³/s), 12.51 in/yr (318 mm/yr), 76,100 acre-ft/yr (93.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,420 ft³/s (40.2 m³/s) June 12, 1965, gage height, 6.39 ft (1.948 m); minimum, 5.7 ft³/s (0.16 m³/s) Mar. 7, 1980, gage height, 0.99 ft (0.302 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.50 m³/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft³/s)	(m³/s)	(ft)	(m)	Date	Time	(ft³/s)	(m³/s)	(ft)	(m)
May 8	0145	480	13.6	3.88	1.183	June 20	0330	*792	22.4	4.65	1.417
May 23	0645	744	21.1	4.55	1.387	July 3	0400	673	19.1	4.38	1.335
June 12	0230	494	14.0	3.92	1.195						

Minimum discharge, 5.7 ft³/s (0.16 m³/s) Mar. 7, gage height, 0.99 ft (0.302 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)

1.2	13	3.0	215
1.4	24	3.5	353
1.6	38	4.0	523
2.0	72	4.5	723
2.5	129		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	28	18	20	21	15	17	262	263	402	130	53
2	28	25	19	20	22	17	16	279	279	401	122	50
3	28	27	20	20	22	18	16	324	268	560	116	49
4	27	27	22	20	22	17	16	373	260	457	108	48
5	27	27	21	20	20	17	17	419	244	425	97	46
6	27	27	22	16	21	16	16	451	238	387	94	45
7	27	26	22	18	21	15	15	454	226	354	91	45
8	27	25	22	19	18	17	15	453	223	352	88	48
9	27	24	21	19	18	18	17	418	267	371	86	50
10	27	25	20	19	18	18	17	361	361	368	83	54
11	26	26	15	17	19	18	16	313	475	325	78	74
12	26	23	18	20	19	17	16	270	469	296	76	66
13	26	23	18	20	19	17	17	246	405	270	74	91
14	26	23	19	20	20	18	19	233	375	252	73	114
15	28	22	19	20	20	18	21	232	343	221	81	93
16	29	23	19	19	20	15	23	228	322	211	85	80
17	28	25	20	22	19	16	27	216	391	217	88	71
18	29	23	19	22	18	19	36	223	495	212	76	67
19	35	23	19	16	17	17	49	260	693	197	75	65
20	32	18	20	20	17	17	69	317	719	193	70	64
21	30	18	19	22	16	18	117	425	715	196	64	73
22	29	19	19	19	16	18	166	587	678	200	61	65
23	29	20	17	22	17	17	166	713	645	192	60	62
24	29	19	19	21	16	16	173	557	486	193	59	60
25	30	21	20	20	18	15	206	438	456	174	59	58
26	31	21	17	20	18	15	240	369	488	159	63	56
27	29	18	18	19	17	17	251	323	432	150	60	54
28	29	16	18	18	17	15	275	290	391	143	58	52
29	29	16	18	20	17	16	304	278	384	145	56	50
30	27	17	19	20	---	16	295	262	412	142	55	49
31	28	---	19	20	---	15	---	259	---	138	54	---
TOTAL	878	675	596	608	543	518	2648	10833	12403	8303	2440	1852
MEAN	28.3	22.5	19.2	19.6	18.7	16.7	88.3	349	413	268	78.7	61.7
MAX	35	28	22	22	22	19	304	713	719	560	130	114
MIN	26	16	15	16	16	15	15	216	223	138	54	45
CFSM	.25	.20	.17	.17	.16	.15	.78	3.06	3.62	2.35	.69	.54
IN.	.29	.22	.19	.20	.18	.17	.86	3.53	4.05	2.71	.80	.60
AC-FT	1740	1340	1180	1210	1080	1030	5250	21490	24600	16470	4840	3670

CAL YR 1979 TOTAL 26412 MEAN 72.4 MAX 665 MIN 15 CFSM .64 IN 8.62 AC-FT 52390
WTR YR 1980 TOTAL 42297 MEAN 116 MAX 719 MIN 15 CFSM 1.02 IN 13.80 AC-FT 83900

13120500 BIG LOST RIVER AT HOWELL RANCH, NEAR CHILLY, ID

LOCATION.--Lat 43°59'54", long 114°01'12", in NE¼NW¼ sec.30, T.8 N., R.21 E., Custer County, Hydrologic Unit 17040218, on left bank at Howell Ranch, 2.1 mi (3.4 km) downstream from Burnt Creek, 7.7 mi (12.4 km) downstream from East Fork, 9 mi (14.5 km) southwest of Chilly, and 21 mi (33.8 km) northwest of Mackay.

DRAINAGE AREA.--450 mi^2 (1,170 km^2). Mean altitude, 8,590 ft (2,618 m).

PERIOD OF RECORD.--April 1904 to November 1914, May 1920 to current year (no winter records 1904, 1906-14, 1920-48).

REVISED RECORDS.--WSP 1287: Drainage area. WSP 1317: 1905.

GAGE.--Water-stage recorder. Datum of gage is 6,621.95 ft (2,018.37 m) National Geodetic Vertical Datum of 1929. See WSP 1737 for history of changes prior to June 11, 1920.

REMARKS.--Records good except those for winter periods, which are poor, and July and August, which are fair. No regulation. Diversions above station for irrigation of about 3,000 acres (1,210 hm^2), 1966 determination.

AVERAGE DISCHARGE.--33 years (1905, 1949-80), 322 ft^3/s (9.12 m^3/s), 9.72 in/yr (247 mm/yr), 233,300 acre-ft/yr (288 hm^3).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft^3/s (125 m^3/s) May 25, 1967, gage height, 6.02 ft (1.835 m); minimum observed, 19 ft^3/s (0.54 m^3/s) Dec. 12, 1939 (discharge measurement).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 900 ft^3/s (25.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 8	0415	1350	38.2	3.50	1.067
May 23	0715	1780	50.4	3.97	1.210
June 12	0415	1430	40.5	3.60	1.097
June 21	0415	2030	57.5	4.21	1.283
July 3	0400	*2080	58.9	4.26	1.298

Minimum daily discharge, 53 ft^3/s (1.50 m^3/s) Mar. 16.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 13-17)

1.0	55	2.0	346
1.1	72	2.5	608
1.3	112	3.0	938
1.5	164	4.2	2020
1.7	226		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	89	68	68	76	56	68	650	726	1230	400	175
2	86	81	75	68	76	62	64	818	750	1260	370	170
3	85	91	80	68	76	62	64	931	715	1850	360	165
4	85	91	83	68	76	62	64	1040	691	1550	335	160
5	85	93	80	68	72	62	67	1170	654	1400	290	155
6	83	91	82	58	76	56	63	1260	646	1300	290	150
7	83	89	82	68	76	56	60	1280	622	1250	280	150
8	83	85	82	64	64	56	60	1270	597	1200	270	160
9	83	87	80	68	64	60	66	1180	707	1130	260	170
10	83	89	80	68	64	64	66	1010	1000	1080	250	190
11	82	89	54	58	64	62	63	894	1350	1000	240	250
12	79	85	64	72	64	56	63	784	1380	900	240	225
13	78	85	64	68	68	56	64	706	1170	830	230	298
14	78	84	68	72	72	64	70	656	1090	770	250	499
15	83	80	68	72	72	62	65	650	986	680	260	407
16	95	86	72	66	72	53	70	650	900	660	280	317
17	93	94	72	80	68	56	77	620	1090	660	285	275
18	89	90	68	80	64	64	91	626	1410	660	240	247
19	103	85	68	62	60	58	110	689	1800	610	240	238
20	101	64	72	74	60	60	142	800	1870	600	225	224
21	95	68	68	80	56	60	216	1110	1930	610	210	251
22	93	72	68	72	56	60	307	1550	1920	620	205	228
23	93	80	58	80	60	60	356	1770	1860	600	200	220
24	95	76	68	76	58	61	365	1590	1410	600	200	211
25	95	80	72	72	60	65	433	1250	1330	540	200	205
26	99	83	60	72	60	65	523	1060	1480	500	205	197
27	97	68	60	72	60	70	573	920	1300	470	210	190
28	97	64	60	66	60	63	626	829	1160	440	200	184
29	93	64	64	76	60	66	700	785	1140	450	190	178
30	87	68	68	72	---	66	650	749	1260	430	190	173
31	89	---	68	76	---	62	---	727	---	420	175	---
TOTAL	2759	2451	2176	2184	1914	1885	6206	30024	34944	26300	7780	6662
MEAN	89.0	81.7	70.2	70.5	66.0	60.8	207	969	1165	848	251	222
MAX	103	94	83	80	76	70	700	1770	1930	1850	400	499
MIN	78	64	54	58	56	53	60	620	597	420	175	150
AC-FT	5470	4860	4320	4330	3800	3740	12310	59550	69310	52170	15430	13210

CAL YR 1979 TOTAL 83617 MEAN 229 MAX 2020 MIN 54 AC-FT 165500
WTR YR 1980 TOTAL 125285 MEAN 342 MAX 1930 MIN 53 AC-FT 248500

NOTE.--No gage-height record Nov. 18 to Apr. 15, July 4 to Sept. 11.

13126000 MACKAY RESERVOIR NEAR MACKAY, ID

LOCATION.--Lat 43°57'05", long 113°40'28", in NW¼NE¼SW¼ sec.12, T.7 N., R.23 E., Custer County, Hydrologic Unit 17040218, on gate-control tower of Mackay Dam on Big Lost River and 4 mi (6.4 km) northwest of Mackay.

DRAINAGE AREA.--788 mi² (2,040 km²).

PERIOD OF RECORD.--January 1919 to current year.

GAGE.--Water-stage recorder. Datum of gage is 6,000 ft (1,828 m), Utah Construction Co. datum, or 6,000.4 ft (1,828.9 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 15, 1959, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earth- and rock-fill dam, which was reconstructed in 1917-18; storage impounded by original dam not recorded. Crest of spillway was raised 5 ft (1.5 m) in September 1956. Capacity is 44,370 acre-ft (54.7 hm³) between gage heights 7.0 (2.1 m) and 66.5 ft (20.27 m), crest of spillway. Dead storage reported to be about 125 acre-ft (0.154 hm³). Water is used for irrigation of about 33,000 acres (13,400 hm²) in Big Lost River irrigation district. About 12,700 acres (5,140 hm²) irrigated from Big Lost River and tributaries above reservoir by surface diversions, and about 10,200 acres (4,130 hm²) irrigated by subirrigation. Considerable seepage around dam because of its porous foundation, but the greater part of this water returns to Big Lost River between reservoir and station below reservoir, near Mackay. Prior to Oct. 1, 1959, contents below 1,000 acre-ft (1.233 hm³) may be in error at times as readings at gage were too low because of fall in outlet channel. Figures given herein represent usable contents.

COOPERATION.--Capacity table furnished by Water District 34.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 46,070 acre-ft (56.8 hm³) May 14, 1976, gage height, 67.73 ft (20.644 m); no available contents during periods in 1919-20, 1924, 1926, 1929, 1931-35, 1974; minimum gage height observed, 6.3 ft (1.92 m) Aug. 5, 1934.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 44,940 acre-ft (55.4 hm³) June 26, July 3, 4, gage height, 66.92 ft (20.397 m); minimum daily, 1,200 acre-ft (1.48 hm³) Oct. 15, may have been lower during period of no gage-height record.

Capacity table (gage height, in feet, and contents, in acre-feet)

12.0	1,080	35.0	12,020
15.0	1,930	40.0	15,760
20.0	3,740	50.0	24,680
25.0	5,990	60.0	35,900
30.0	8,730	69.0	47,880

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	4820	11870	18480	23420	26940	30020	35000	43150	44780	26140	8320
2	---	5030	12140	18650	23560	27050	30110	35740	42730	44750	24940	8200
3	---	5260	12400	18830	23670	27190	30190	36320	42300	44940	23700	8140
4	---	5480	12670	19000	23810	27280	30270	36810	41870	44820	22450	8100
5	---	5690	12880	19180	23930	27420	30390	37440	41440	44460	21270	8120
6	---	5920	13120	19360	24090	27530	30490	38150	40900	44260	20270	8010
7	---	6150	13350	19520	24200	27640	30550	38690	40390	44220	19300	7990
8	---	6400	13590	19690	24330	27740	30620	39680	39840	44350	18420	8040
9	---	6640	13840	19870	24450	27850	30740	40310	39320	44770	17540	8180
10	---	6880	14000	20040	24560	27940	30800	40660	38960	44820	16690	8340
11	---	7130	14270	20240	24690	28090	30860	40820	39090	44670	15890	8510
12	---	7370	14500	20430	24830	28150	30930	40840	39500	44520	15190	8700
13	---	7580	14700	20610	24950	28240	31010	40700	39710	44450	14470	9020
14	---	7800	14920	20770	25070	28360	31070	40530	39720	44520	13780	9680
15	1200	8030	15140	29910	25180	28470	31150	40350	39640	44480	13180	9950
16	1420	8250	15330	21080	25320	28520	31190	40270	39230	44130	12630	10500
17	1620	8470	15540	21250	25430	28600	31270	40230	38790	43660	12190	10960
18	1820	8690	15750	21410	25580	28730	31340	40150	38780	42900	11820	11440
19	2030	8960	15940	21580	25710	28820	31396	40110	39320	41960	11540	11890
20	2260	9180	16160	21730	25830	28920	31450	40080	40320	40800	11210	12320
21	2470	9410	16390	21860	25940	29030	31490	40330	41450	39680	10950	12730
22	2690	9680	16570	22020	26050	29100	31540	41160	42650	38640	10720	13150
23	2900	9940	16780	22200	26170	29200	31570	42800	43730	37490	10460	13170
24	3100	10190	16980	22320	26270	29280	31610	44140	44330	36410	10190	13910
25	3300	10410	17160	22460	26390	29370	31670	44640	44610	35180	9930	14250
26	3500	10650	17360	22600	26500	29460	31910	44820	44940	33820	9660	14590
27	3700	10910	17540	22760	26610	29590	32110	44700	44740	32520	9400	14920
28	3970	11140	17720	22870	26750	29670	32580	44480	44520	31090	9130	15220
29	4170	11390	17930	22980	26850	29770	33580	44180	44440	29810	8910	15530
30	4380	11620	18100	23120	---	29900	34200	43890	44560	28600	8720	15800
31	4600	---	18280	23290	---	29940	---	43520	---	27350	8520	---
MAX	4600	11620	18280	29910	26850	29940	34200	44820	44940	44940	26140	15800
MIN	---	4820	11870	18480	23420	26940	30020	35000	38780	27350	8520	7990
(†)	22.01	34.13	43.09	48.60	52.09	54.93	58.60	65.88	66.64	52.56	29.65	40.06
(‡)	+3460	+7020	+6660	+5010	+3560	+3090	+4260	+9320	+1040	-17210	-18830	+7280

CAL YR 1979............ ‡ -15790
WTR YR 1980............ ‡ +14660

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet, at end of month.

13127000 BIG LOST RIVER BELOW MACKAY RESERVOIR, NEAR MACKAY, ID

LOCATION.--Lat 43°56'20", long 113°38'50", in SW¼NE¼ sec.18, T.7 N., R.24 E., Custer County, Hydrologic Unit 17040218, on left bank 1.4 mi (2.3 km) downstream from head of Sharp ditch, 1.6 mi (2.6 km) downstream from Mackay Reservoir, and 2.5 mi (4 km) northwest of Mackay.

DRAINAGE AREA.--813 mi² (2.106 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1903 to August 1906 and May 1912 to March 1915 (published as "near Mackay"), January 1919 to current year.

REVISED RECORDS.--WSP 1347: 1904-6.

GAGE.--Water-stage recorder. Datum of gage is 5,946.39 ft (1,812 m) National Geodetic Vertical Datum of 1929. Nonrecording gage prior to May 12, 1912, and June 5, 1912, to Apr. 28, 1913, at sites within 1 mi (1.6 km) upstream at different datums, May 12 to June 4, 1912, at site 1.5 mi (2.4 km) upstream (above Sharp ditch) at different datum, Apr. 29, 1913, to Mar. 15, 1915, at site 1 mi (1.6 km) downstream (below Streeter ditch) at different datum.

REMARKS.--Records good except those for winter period, which are fair. Flow completely regulated by Mackay Reservoir (see sta 13126000). Sharp ditch is only diversion between station and reservoir; about 12,700 acres (4,140 hm²) of land are irrigated by diversions from river and tributaries above reservoir by surface diversions, and 10,200 acres (4,130 hm²) irrigated by subirrigation.

AVERAGE DISCHARGE.--64 years (water years 1905, 1913-14, 1920-80), 302 ft³/s (0.55 m³/s), 218,800 acre-ft/yr (270 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft³/s (84.7 m³/s) June 10, 1921, gage height, 5.79 ft (1.765 m); minimum, 16 ft³/s (0.45 m³/s) Oct. 27, 1967, gage height, 1.11 ft (0.338 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,670 ft³/s (47.3 m³/s) July 4, gage height, 4.53 ft (1.381 m); minimum, 42 ft³/s (1.19 m³/s) Oct. 24, gage height, 1.34 ft (0.408 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)

1.4	52	2.5	356
1.6	78	3.5	956
1.8	112	4.5	1670
2.0	163		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	81	65	86	98	110	117	115	863	1070	963	324
2	166	82	65	87	99	112	117	157	850	1190	963	297
3	163	84	65	88	99	112	117	297	843	1390	956	267
4	163	85	65	88	99	112	119	411	837	1640	936	243
5	165	87	65	88	99	112	119	437	837	1500	896	240
6	163	81	63	89	100	112	119	560	830	1320	824	240
7	166	75	64	89	100	112	117	633	824	1110	772	240
8	166	73	66	90	100	112	117	633	818	922	726	200
9	163	73	67	90	101	115	119	688	811	824	688	163
10	163	75	69	90	101	115	119	732	805	1100	651	163
11	165	75	70	90	102	115	117	732	805	1120	633	163
12	163	75	70	91	102	115	117	739	882	991	584	160
13	165	76	71	91	102	115	117	732	963	748	578	163
14	163	78	71	92	102	117	110	682	970	694	560	163
15	113	78	72	92	102	117	108	633	977	713	521	138
16	76	79	74	93	102	117	108	620	1070	778	498	115
17	78	81	75	93	102	117	108	537	1070	876	470	115
18	81	81	76	93	102	117	108	537	1080	943	421	117
19	79	82	76	94	102	117	108	532	1090	1040	416	119
20	71	79	77	94	102	117	108	532	1140	1080	416	121
21	67	71	78	95	103	117	108	526	1140	1060	386	121
22	69	72	78	95	104	117	108	532	1130	1040	366	123
23	71	73	78	95	105	117	110	543	1150	1020	366	123
24	72	73	79	96	106	117	110	772	1160	1020	361	126
25	78	73	80	96	107	117	110	1040	1090	1060	361	126
26	81	69	81	96	108	117	110	1010	1180	1080	356	128
27	82	64	83	96	110	117	110	997	1370	1060	351	128
28	85	65	85	97	110	117	110	963	1240	1040	351	131
29	87	65	85	97	110	119	112	896	1060	1020	333	131
30	84	65	86	97	---	117	112	869	1000	1000	324	131
31	81	---	86	98	---	117	---	869	---	984	324	---
TOTAL	3654	2270	2285	2866	2979	3577	3389	19936	29885	32563	17351	5019
MEAN	118	75.7	73.7	92.5	103	115	113	643	996	1050	560	167
MAX	166	87	86	98	110	119	119	1040	1370	1640	963	324
MIN	67	64	63	86	98	110	108	115	805	694	324	115
AC-FT	7250	4500	4530	5680	5910	7090	6720	39540	59280	64590	34420	9960

CAL YR 1979 TOTAL 99001 MEAN 271 MAX 1500 MIN 63 AC-FT 196400
WTR YR 1980 TOTAL 125774 MEAN 344 MAX 1640 MIN 63 AC-FT 249500

NOTE.--No gage-height record Dec. 7 to Feb. 26.

13127000 BIG LOST RIVER BELOW MACKAY RESERVOIR, NEAR MACKAY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1966-69, 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 16...	1430	76	236	--	8.5	10.5	--	--	--	--	--	--
DEC 06...	1410	64	264	8.1	-2.5	5.5	140	14	41	10	6.0	11
JAN 22...	1130	96	271	--	-8.5	3.5	--	--	--	--	--	--
MAR 25...	0930	114	282	--	-6.0	4.5	--	--	--	--	--	--
MAY 20...	1415	520	251	8.5	11.5	11.5	120	22	34	9.1	5.1	8
JUL 10...	1120	1150	206	--	18.0	14.0	--	--	--	--	--	--
SEP 11...	1405	162	290	--	13.0	12.5	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT 16...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 06...	.2	1.6	130	20	5.0	.2	12	175	.24	30.2	.22	.010
JAN 22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	.2	1.5	100	16	4.3	.2	10	147	.20	210	1.6	.020
JUL 10...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--

13128900 LOWER CEDAR CREEK ABOVE DIVERSIONS, NEAR MACKAY, ID

LOCATION.--Lat 43°57'57", long 113°34'40", in NW¼SW¼ sec. 2, T.7 N., R.24 E., Custer County, Hydrologic Unit 17040218, Challis National Forest, on right bank at abandoned powerplant site, approximately 1,000 ft (305 m) upstream from the heading of Nielson diversion, and 3.9 mi (6.3 km) northeast of Mackay.

DRAINAGE AREA.--8.26 mi² (21.4 km²).

PERIOD OF RECORD.--Water years 1963, 1964-66 (annual maximums only, published as Cedar Creek near Mackay and Cedar Creek above diversions, near Mackay, respectively), August 1966 to September 1973, October 1979 to September 1980. Combination of discharge records for Clark ditch near Mackay and Cedar Creek (below powerplant) near Mackay for May 1920 to September 1922 (seasonal records only) is equivalent to this record.

GAGE.--Water-stage recorder. Altitude of gage is 6,800 ft (2,073 m), from topographic map. May 1, 1920, to Oct. 21, 1922, nonrecording gage at present site at different datums. Sept. 26, 1963, to Aug. 13, 1966, crest-stage gage at site 20 ft (6.1 m) downstream at datum 9.32 ft (2.841 m) lower.

AVERAGE DISCHARGE.--8 years, 19.5 ft³/s (0.552 m³/s), 32.06 in./yr (814 mm/yr), 14,130 acre-ft/yr (17.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 297 ft³/s (8.41 m³/s) June 7, 1921, gage height, 2.8 ft (0.85 m), datum then in use, Clark ditch reported dry. Minimum discharge observed, 0.4 ft³/s (11.3 dm³/s) Nov. 21 to Dec. 1, 1921, gage height, 0.18 ft (0.055 m), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 183 ft³/s (5.18 m³/s) June 20, gage height, 2.65 ft (0.808 m); minimum 1.1 ft³/s (0.031 m³/s) Apr. 11, gage height, 1.05 ft (0.320 m).

REMARKS.--Records good except for periods of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.8	7.4	6.0	5.6	4.6	1.6	33	32	45	18	14
2	11	7.8	8.3	5.6	6.0	4.4	1.6	34	31	50	17	14
3	11	7.8	8.3	6.0	6.2	4.2	1.6	36	32	67	16	14
4	11	7.8	7.8	5.6	6.2	4.1	1.6	45	31	70	15	13
5	11	7.8	7.4	6.0	6.1	3.8	1.6	51	29	72	14	14
6	10	7.4	7.4	5.6	5.8	3.8	1.4	56	27	67	14	14
7	9.6	7.4	7.4	6.0	5.6	3.8	1.4	48	26	62	14	14
8	9.6	7.8	6.9	6.0	5.4	3.4	1.3	44	27	62	14	17
9	9.2	7.8	6.9	6.5	5.4	3.4	1.4	38	47	67	15	17
10	9.2	7.8	7.4	6.9	5.4	3.4	1.3	29	74	71	14	17
11	8.7	7.8	6.9	7.4	5.6	3.1	1.3	23	76	62	15	19
12	8.7	7.4	6.9	7.8	5.8	2.7	1.3	19	50	54	15	21
13	8.7	7.4	6.5	8.3	6.2	2.7	1.4	18	42	49	15	31
14	8.3	7.8	6.5	8.3	6.4	2.4	2.0	17	43	41	15	58
15	8.7	7.8	6.5	8.3	6.4	2.4	3.8	17	36	36	15	54
16	8.7	7.8	6.5	9.0	6.4	2.4	4.1	16	35	36	15	39
17	8.7	7.8	6.5	9.5	6.4	2.4	8.3	24	53	38	15	32
18	8.7	7.8	6.5	9.5	6.3	2.4	12	32	85	37	15	28
19	8.7	7.4	6.5	9.1	6.2	2.0	15	40	124	36	15	26
20	8.7	7.8	6.5	8.4	6.1	2.0	27	54	141	35	15	24
21	8.7	7.4	6.5	7.8	5.9	2.0	32	70	140	34	15	21
22	8.3	7.4	6.5	7.4	5.8	2.0	34	115	117	35	15	20
23	8.3	7.4	6.0	7.3	5.6	1.8	31	97	121	34	15	19
24	8.3	7.4	6.0	7.1	5.5	1.8	27	59	85	33	15	19
25	8.3	7.4	6.0	6.8	5.3	1.8	29	48	87	31	15	18
26	8.3	7.8	6.0	6.6	5.2	1.8	39	40	98	30	15	17
27	8.3	7.8	6.0	6.4	5.0	1.8	37	34	76	26	15	17
28	8.3	7.4	6.0	5.9	4.8	1.8	44	32	66	23	15	16
29	8.3	7.4	6.0	5.6	4.7	1.6	46	33	66	21	15	16
30	7.8	7.4	6.0	5.4	---	1.8	36	31	44	19	15	15
31	7.8	---	6.0	5.4	---	1.6	---	32	---	19	15	---
TOTAL	279.9	228.8	208.0	217.5	167.3	83.2	446.0	1265	1941	1362	466	658
MEAN	9.03	7.63	6.71	7.02	5.77	2.68	14.9	40.8	64.7	43.9	15.0	21.9
MAX	11	7.8	8.3	9.5	6.4	4.6	46	115	141	72	18	58
MIN	7.8	7.4	6.0	5.4	4.7	1.6	1.3	16	26	19	14	13
CFSM	1.09	.92	.81	.85	.70	.32	1.80	4.94	7.83	5.32	1.82	2.65
IN.	1.26	1.03	.94	.98	.75	.37	2.01	5.70	8.74	6.13	2.10	2.96
AC-FT	555	454	413	431	332	165	885	2510	3850	2700	924	1310

WTR YR 1980 TOTAL 7322.7 MEAN 20.0 MAX 141 MIN 1.3 CFSM 2.42 IN 32.97 AC-FT 14520

NOTE.--No gage-height record Jan. 15 to Mar. 3, May 17-20.

13132500 BIG LOST RIVER NEAR ARCO, ID

LOCATION.--Lat 43°35'00", long 113°16'10", in SW¼ sec.17, T.3 N., R.27 E., Butte County, Hydrologic Unit 17040218, on right bank 0.4 mi (0.6 km) downstream from slough entering from left bank and 4 mi (6.4 km) southeast of Arco.

DRAINAGE AREA.--1,410 mi² (3,650 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1946 to September 1961, May 1966 to September 1980.

GAGE.--Water-stage recorder. Altitude of gage is 5,240 ft (1,597 m) by barometer. Prior to Oct. 14, 1952, at site 800 ft (244 m) upstream at datum 3.08 ft (0.939 m) higher.

REMARKS.--Records poor. Flow regulated by Mackay Reservoir (see sta 13126000). Station is below all large diversions for irrigation in Big Lost River valley. About 57,500 acres (23,300 hm²) of land irrigated by diversions from river and tributaries and by ground-water withdrawals above station. About 10,200 acres (4,100 hm²) irrigated by subirrigation above Mackay Reservoir.

AVERAGE DISCHARGE.--29 years, 92.3 ft³/s (2.61 m³/s), 66,870 acre-ft/yr (82.45 hm³).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s (53.5 m³/s) July 5, 1967, gage height, 7.68 ft (2.341 m); no flow on many days.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1965, reached a stage of 8.03 ft (2.448 m), from floodmarks, discharge, 2,500 ft³/s (70.8 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 300 ft³/s (8.50 m³/s) July 5; minimum daily, 1.6 ft³/s (0.045 m³/s) Oct. 8, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	4.4	3.7	4.0	3.7	4.5	2.4	3.7	77	125	51	26
2	3.5	4.1	3.9	4.0	3.8	4.5	3.7	3.8	97	170	60	28
3	2.6	4.4	4.1	4.3	3.8	4.5	3.7	5.0	93	230	64	25
4	2.4	4.6	4.5	4.5	3.8	4.6	3.9	6.0	96	275	68	23
5	2.9	4.8	4.4	4.2	3.7	4.3	4.0	8.0	107	300	72	31
6	3.1	4.4	4.3	4.1	4.0	4.2	4.0	8.6	108	270	76	34
7	1.8	4.1	4.2	3.5	3.8	4.2	4.0	8.8	108	210	78	33
8	1.6	4.1	4.0	3.6	3.7	4.3	4.0	9.0	111	160	80	37
9	2.4	4.8	3.8	3.8	3.5	4.6	4.0	9.0	100	115	84	33
10	2.2	5.3	3.6	4.0	3.5	5.1	4.0	9.0	103	118	84	34
11	2.2	5.1	3.0	3.2	3.5	4.8	4.0	8.4	104	128	80	34
12	3.5	6.0	3.3	3.9	3.6	4.6	4.0	8.0	110	118	78	34
13	1.6	6.6	3.5	4.7	3.8	4.3	4.0	7.6	114	79	74	34
14	1.8	7.4	3.7	5.6	4.0	4.2	3.7	7.6	119	41	72	32
15	1.9	7.7	4.0	4.5	4.2	3.8	3.6	7.6	120	46	66	26
16	2.2	8.2	4.8	4.2	4.1	3.6	3.6	8.0	122	37	62	21
17	1.9	5.3	4.8	3.8	4.1	4.0	3.6	9.5	125	56	58	21
18	1.9	4.8	4.0	3.6	4.2	4.3	3.6	8.5	130	34	54	22
19	2.9	4.7	4.4	3.5	4.5	4.3	3.6	5.8	131	31	54	22
20	3.5	4.2	4.2	3.2	4.6	4.1	3.6	5.5	134	28	57	22
21	4.8	4.5	3.8	3.7	4.5	4.5	3.6	5.3	132	26	50	22
22	4.8	4.4	3.6	3.5	4.4	4.4	3.6	6.3	133	25	45	22
23	4.6	4.1	3.3	3.4	4.3	4.0	3.6	11	135	27	40	23
24	4.8	4.0	3.7	3.3	4.2	3.6	3.6	9.1	139	27	40	23
25	4.8	3.8	4.1	3.2	4.4	3.3	3.6	17	165	25	34	23
26	4.4	3.2	4.5	3.1	4.6	3.5	3.6	102	180	26	30	23
27	4.4	2.6	4.2	2.9	4.7	3.1	3.6	178	200	32	29	24
28	4.6	2.2	3.4	2.7	4.4	3.7	3.6	170	210	26	30	24
29	4.4	2.6	3.3	2.9	4.5	3.1	3.6	125	170	27	27	24
30	4.6	3.1	3.5	3.1	---	3.1	3.6	107	150	29	28	24
31	4.4	---	3.7	3.3	---	2.7	---	91	---	30	28	---
TOTAL	99.8	139.5	121.3	115.3	117.9	125.8	111.0	969.1	3823	2879	1753	801
MEAN	3.22	4.65	3.91	3.72	4.07	4.06	3.70	31.3	127	92.9	56.5	26.7
MAX	4.8	8.2	4.8	5.6	4.7	5.1	4.0	178	210	300	84	37
MIN	1.6	2.2	3.0	2.7	3.5	2.7	2.4	3.7	77	25	27	21
AC-FT	198	277	241	229	234	250	220	1920	7580	5710	3480	1590

CAL YR 1979 TOTAL 4169.2 MEAN 11.4 MAX 50 MIN 1.6 AC-FT 8270
WTR YR 1980 TOTAL 11055.7 MEAN 30.2 MAX 300 MIN 1.6 AC-FT 21930

NOTE.--No gage-height record Dec. 19 to Mar. 25, Apr. 2 to May 15, June 9 to July 11, Aug. 3-18, Sept. 10-30.

13132500 BIG LOST RIVER NEAR ARCO, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
12...	0912	1.5	513	--	4.0	7.5	--	--	--	--	--	--
DEC												
03...	1448	3.9	445	7.7	2.0	.5	240	83	71	16	9.0	7
JAN												
14...	1324	.97	478	--	8.0	.0	--	--	--	--	--	--
MAR												
22...	1306	4.4	466	--	4.5	9.0	--	--	--	--	--	--
25...	1515	3.4	456	--	.0	8.0	--	--	--	--	--	--
MAY												
16...	1530	7.6	412	8.2	6.0	14.0	200	32	56	15	8.9	9
JUL												
11...	1545	121	380	--	32.0	19.0	--	--	--	--	--	--
SEP												
10...	0830	34	436	--	15.5	15.0	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT												
12...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
03...	.3	2.3	--	29	11	.2	16	252	.34	2.66	.24	.010
JAN												
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	.3	1.7	170	22	7.1	.3	13	235	.32	4.82	2.0	.010
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
10...	--	--	--	--	--	--	--	--	--	--	--	--

13135000 SNAKE RIVER BELOW LOWER SALMON FALLS, NEAR HAGERMAN, ID

LOCATION.--Lat 42°50'55", long 114°54'02", in NW¼ sec.2, T.7 S., R.13 E., Gooding County, Hydrologic Unit 17040212, on right bank 0.5 mi (0.8 km) downstream from Lower Salmon Falls powerplant, 1 mi (1.6 km) upstream from Big Wood River, 2.2 mi (3.5 km) north of Hagerman, and at mile 572.5 (921.2 km).

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for October 1937, published in WSP 1317.

GAGE.--Water-stage recorder. Datum of gage is 2,727.7 ft (831.403 m) National Geodetic Vertical Datum of 1929 (stadia levels). Prior to Jan. 3, 1950, at site 340 ft (103.6 m) upstream.

REMARKS.--Records good except those for February and March, which are fair. Flow regulated by American Falls Reservoir 141.6 mi (227.8 km) upstream (see sta 13076500). Diurnal fluctuation caused by hydroelectric plants upstream. At times, practically entire flow is diverted at Milner during irrigation seasons; only minor diversions below Milner. Most of the percolation upstream into the Snake Plain aquifer returns above station, including some water diverted from Big Wood River. Diversions above station for irrigation of about 2,330,000 acres (943,000 hm^2) of which about 665,000 acres (269,000 hm^2) are by withdrawals from ground water and about 83,000 acres (33,600 hm^2) are irrigated below station.

AVERAGE DISCHARGE.--43 years, 9,019 ft^3/s (255 m^3/s), 6,534,000 acre-ft/yr (8,056 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft^3/s (884 m^3/s) June 24, 1964, gage height, 15.73 ft (4.795 m); minimum, probably less than 100 ft^3/s (2.83 m^3/s) Jan. 10, 11, 1950, when river was below intake pipes; minimum daily, 3,970 ft^3/s (112 m^3/s) July 8, 1951.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,900 ft^3/s (762 m^3/s) June 7, gage height, 14.49 ft (4.417 m); minimum daily, 5,170 ft^3/s (146 m^3/s) July 12.

Rating table (gage height, in feet, and discharge, in cubic feet per second)

6.0	5000	9.0	11500
7.0	6980	11.0	16700
8.0	9160	13.0	22400
		15.0	28400

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6830	6950	6430	6170	6020	6300	5660	12000	21700	5340	5940	6490
2	6770	6930	6470	6210	6020	6350	5670	12000	22100	5360	5860	6610
3	6830	6950	6510	6060	6020	6300	5690	9310	23700	5480	5930	6490
4	6780	6980	6470	6190	6020	6300	5710	7230	24100	5470	6030	6520
5	6800	6900	6420	6190	6020	6300	7320	7670	25900	5590	6100	6590
6	6730	6670	6430	6100	6150	6250	10300	7710	26400	5570	5980	6510
7	6700	6700	6400	6130	5980	6250	10500	7060	26400	5500	6040	6480
8	6700	6680	6460	6160	6000	6250	10900	7100	26000	5600	5860	6870
9	6720	6580	6410	6110	6000	6300	12100	7700	25800	5280	5800	6910
10	6560	6540	6360	6260	6000	6250	11900	8220	25000	5250	5900	7000
11	6640	6500	6390	6280	6000	6250	11000	9330	22500	5220	5870	7300
12	6600	6500	6370	6290	6000	6250	10700	11600	18600	5170	5940	7460
13	6640	6480	6310	6650	5850	6250	10700	13300	14400	5220	5800	7550
14	6640	6460	6270	7060	5750	6200	10800	15100	13300	5240	5770	8010
15	6720	6400	6320	6780	5900	6700	10200	15600	12100	5400	5810	7510
16	6820	6450	6350	6650	6000	6900	8880	15400	10100	5440	5930	7480
17	6790	6420	6290	6610	6200	7200	8820	15500	9710	5560	6000	7300
18	6880	6460	6340	6610	6400	7300	7530	14100	10800	5570	6320	7330
19	7100	6490	6270	6440	6800	7200	6390	12900	9800	5610	6610	7320
20	7260	6320	6360	6640	6400	7000	5700	12400	9290	5670	6320	7350
21	7280	6420	6260	6550	6000	7200	5550	12700	7840	5790	6240	7370
22	7160	6530	6210	6520	5850	7150	5420	11500	6680	5710	6270	7350
23	7260	6650	6380	6450	5800	6800	5400	11300	6140	5730	6280	7400
24	7180	6630	6320	6260	5850	6400	5400	12500	6050	5620	6210	7360
25	7120	6640	6250	6260	5800	6400	5750	14500	5750	5630	6260	7200
26	7080	6580	6280	6300	5850	6170	5810	16000	5700	5700	6240	7020
27	7070	6570	6210	6070	6000	5980	5780	18000	5550	5840	6190	6850
28	7000	6470	6290	6120	6200	6010	5720	19500	5390	5960	6190	6760
29	7020	6380	6190	6180	6350	5660	5710	20300	5460	5790	6190	6700
30	6990	6380	6170	6050	---	5540	6530	19900	5330	5810	6270	6650
31	6940	---	6220	6020	---	5710	---	21000	---	5830	6390	---
TOTAL	213610	197610	196410	196370	175230	199140	233540	398430	437590	171950	188540	211740
MEAN	6891	6587	6336	6335	6042	6424	7785	12850	14590	5547	6082	7058
MAX	7280	6980	6510	7060	6800	7300	12100	21000	26400	5960	6610	8010
MIN	6560	6320	6170	6020	5750	5540	5400	7060	5330	5170	5770	6480
AC-FT	423700	392000	389600	389500	347600	395000	463200	790300	868000	341100	374000	420000

CAL YR 1979 TOTAL 3053820 MEAN 8367 MAX 20100 MIN 5120 AC-FT 6057000
WTR YR 1980 TOTAL 2820160 MEAN 7705 MAX 26400 MIN 5170 AC-FT 5594000

NOTE.--No gage-height record Jan. 29 to Mar. 25.

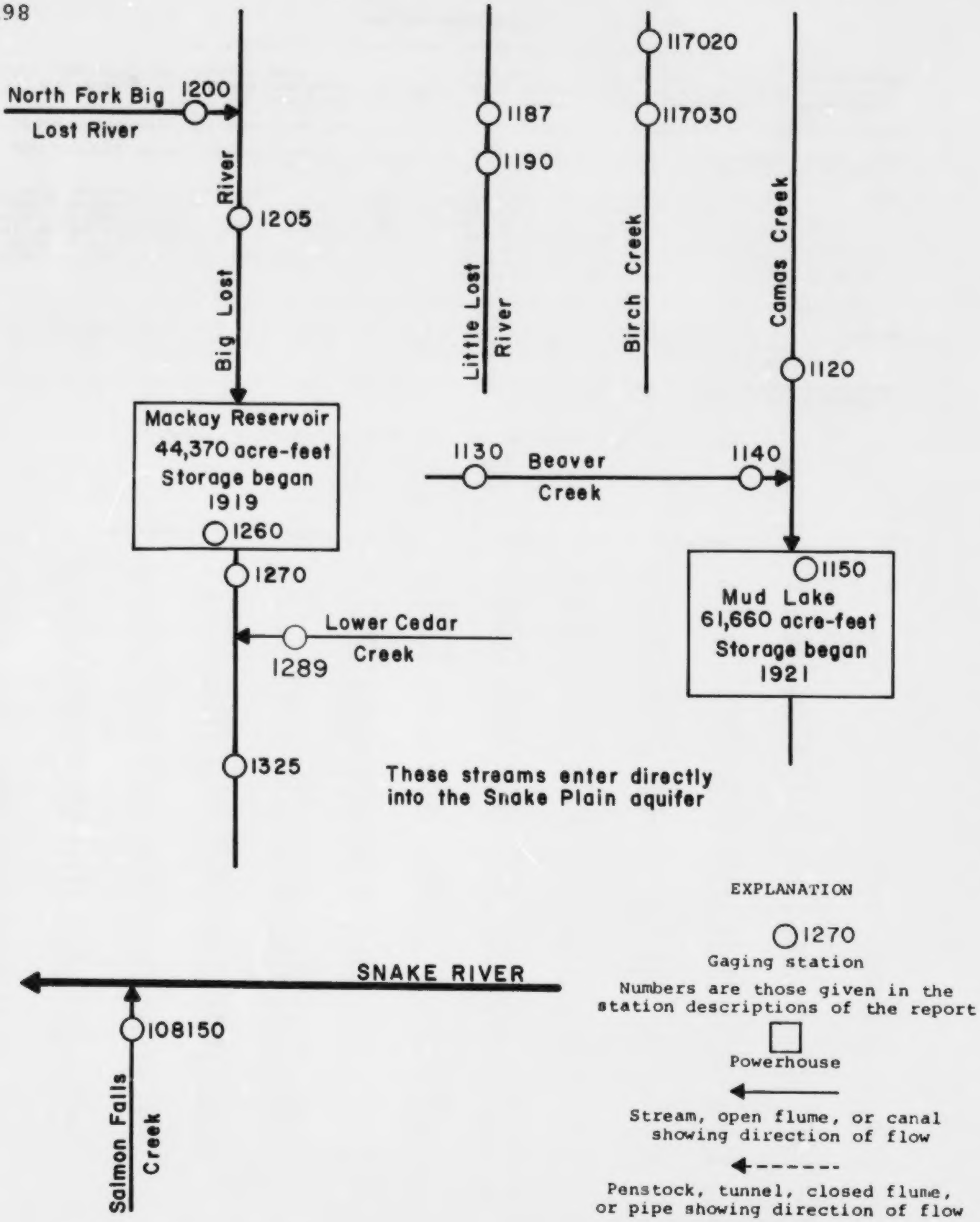
North Fork Big Lost River
1200
Big Lost River
1205
Mackay Reservoir
44,370 acre-feet
Storage began
1919
1260
1270
Lower Cedar Creek
1289
1325
Little Lost River
1187
1190
Birch Creek
117020
117030
Camas Creek
1120
1130
Beaver Creek
1140
1150
Mud Lake
61,660 acre-feet
Storage began
1921
These streams enter directly into the Snake Plain aquifer
SNAKE RIVER
108150
Salmon Falls Creek
EXPLANATION
1270
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow

FIGURE 9.-- Gaging stations in Mud Lake-Lost River basins.

13139500 BIG WOOD RIVER AT HAILEY, ID

LOCATION.--Lat 43°31'02", long 114°19'14", in SW¼NE¼SW¼ sec.9, T.2 N., R.18 E., Blaine County, Hydrologic Unit 17040219, on left bank 15 ft (4.6 m) upstream from county road crossing, 0.2 mi (0.3 km) southwest of Hailey, 0.4 mi (0.6 km) upstream from Croy Creek, and at mile 91.0 (146.4 km).

DRAINAGE AREA.--640 mi^2 (1,660 km^2), approximately. Mean altitude, 7,620 ft (2,323 m).

PERIOD OF RECORD.--July to December 1889, June 1915 to current year. Published as Wood River at Hailey in 1889. Previously published as Big Wood River and Big Wood Slough combined discharge.

GAGE.--Water-stage recorder. Datum of gage is 5,295.42 ft (1,614.044 m) National Geodetic Vertical Datum of 1929. Nov. 16, 1934, to Oct. 15, 1970, at datum 2.00 ft (0.610 m) higher. July to December 1889 nonrecording gage at nearby site at different datum. June 11, 1915, to Nov. 15, 1934, nonrecording gages at present site at different datum. Nov. 10, 1971, to Sept. 30, 1972, nonrecording gages at different sites at present datum.

REMARKS.--Records good. Diversions above station for irrigation of about 10,000 acres or 4,000 hm^2 (1966 determination) of which about 1,200 acres (490 hm^2) are below station. Storage above station is negligible.

AVERAGE DISCHARGE.--65 years, 382 ft^3/s (10.82 m^3/s), 276,800 acre-ft/yr (341 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,970 ft^3/s (141 m^3/s) about June 16, 1974, gage height, 7.20 ft (2.195 m), from floodmark; maximum gage height, 10.66 ft (3.249 m), present datum, June 12, 1921; no flow Sept. 15-23, Nov. 20, 22, 23, 1931, Oct. 25, 1937.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,650 ft^3/s (75.0 m^3/s) May 23, gage height, 5.50 ft (1.676 m); minimum discharge, 90 ft^3/s (2.55 m^3/s) Nov. 29, gage height, 0.92 ft (0.280 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Apr. 20 to June 7, Aug. 9 to Sept. 30; stage-discharge relation affected by ice Jan. 19-22, Jan. 28-31, Feb. 11, 12)

0.9	87	2.5	598
1.0	102	3.0	851
1.3	165	4.0	1490
1.6	247	5.4	2690
2.0	385		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135	165	118	148	137	141	175	1590	1250	1570	500	318
2	137	153	126	146	139	148	175	1640	1280	1580	478	285
3	143	163	132	143	137	151	180	1790	1230	2070	458	285
4	137	165	137	148	135	148	180	1950	1220	1760	445	275
5	137	160	141	153	130	151	194	2170	1170	1690	425	272
6	137	158	139	139	135	143	199	2300	1150	1570	410	262
7	132	155	141	124	137	137	186	2260	1100	1450	398	266
8	130	153	143	133	130	137	188	2180	1070	1450	387	291
9	132	155	143	148	128	148	194	2170	1130	1460	375	269
10	130	148	148	155	130	148	199	1940	1370	1440	368	281
11	130	155	111	137	135	148	196	1710	1760	1300	357	357
12	130	141	104	153	135	146	204	1520	1860	1180	350	336
13	130	143	113	153	137	148	221	1380	1710	1080	350	385
14	130	143	122	163	141	153	253	1290	1600	1010	357	414
15	135	137	126	165	143	155	301	1260	1510	918	368	370
16	143	139	139	165	143	137	350	1280	1400	861	387	338
17	139	155	143	168	146	139	406	1210	1520	866	368	319
18	141	155	132	163	158	163	513	1220	1870	844	357	301
19	186	141	130	141	165	155	617	1300	2310	800	357	300
20	196	118	137	124	163	155	795	1450	2500	779	346	294
21	183	116	143	139	158	160	976	1840	2480	757	332	326
22	175	118	143	130	153	160	1020	2380	2440	737	318	315
23	170	130	133	146	146	160	1080	2640	2400	706	315	310
24	173	132	135	146	137	163	1160	2350	2020	696	322	309
25	173	135	143	148	143	160	1300	1970	1930	641	315	316
26	178	137	135	153	146	163	1450	1730	2010	603	318	314
27	175	120	116	143	146	175	1490	1580	1770	571	305	308
28	170	102	116	137	146	165	1580	1450	1620	539	298	302
29	170	99	120	137	146	168	1760	1380	1600	543	295	300
30	163	107	126	139	---	175	1720	1310	1580	543	295	290
31	165	---	146	126	---	170	---	1270	---	517	308	---
TOTAL	4705	4198	4081	4513	4125	4770	19262	53510	49860	32531	11262	9308
MEAN	152	140	132	146	142	154	642	1726	1662	1049	363	310
MAX	196	165	148	168	165	175	1760	2640	2500	2070	500	414
MIN	130	99	104	124	128	137	175	1210	1070	517	295	262
AC-FT	9330	8330	8090	8950	8180	9460	38210	106100	98900	64530	22340	18460

CAL YR 1979 TOTAL 104915 MEAN 287 MAX 1700 MIN 99 AC-FT 208100
WTR YR 1980 TOTAL 202125 MEAN 552 MAX 2640 MIN 99 AC-FT 400900

13141000 BIG WOOD RIVER NEAR BELLEVUE, ID

LOCATION.--Lat 43°19'40", long 114°20'25", in NW¼NE¼ sec.20, T.1 S., R.18 E., Blaine County, Hydrologic Unit 17040219, on right bank at downstream end of Mahoney Flat, 1.5 mi (2.4 km) upstream from maximum flow line of Magic Reservoir, 2.8 mi (4.5 km) upstream from Camas Creek, 10.5 mi (16.9 km) southwest of Bellevue, and at mile 76.0 (122.3 km).

DRAINAGE AREA.--824 mi² (2,134 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1911 to current year (no winter records prior to October 1943 except water years 1916, 1921-22, 1940-41).

GAGE.--Water-stage recorder. Altitude of gage is 4,800 ft (1,463 m), from topographic map. Prior to July 8, 1921, at site 0.1 mi (0.2 km) downstream at different datum. July 8, 1921, to Oct. 5, 1954, at site 0.2 mi (0.3 km) upstream at different datum. Oct. 6, 1954, to Oct. 25, 1965, at site 1 mi (1.6 km) upstream at different datum.

REMARKS.--Records fair. Diversions above station for irrigation of about 21,800 acres (8,800 hm²) of which about 400 acres (160 hm²) are by withdrawals from ground water (1966 determination). Storage above station is negligible.

COOPERATION.--Recorder inspected by employees of Water District 37.

AVERAGE DISCHARGE.--42 years (1916, 1922, 1940-41, 1943-80), 300 ft³/s (8.496 m³/s), 217,400 acre-ft/yr (268 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,130 ft³/s (117 m³/s) May 25, 1956; maximum gage height, 6.43 ft (1.960 m) May 12, 1958, site and datum then in use; minimum discharge recorded, 7 ft³/s (0.20 m³/s) Apr. 14, 1932, gage height, 1.10 ft (0.335 m), site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,290 ft³/s (64.9 m³/s) June 21, gage height, 5.92 ft (1.804 m); minimum daily, 31 ft³/s (0.878 m³/s) Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	43	38	35	32	68	104	1210	949	1210	197	78
2	48	43	39	34	33	69	104	1220	979	1200	162	76
3	47	43	39	33	33	73	102	1320	911	1670	131	76
4	48	47	38	33	33	84	102	1380	864	1530	119	72
5	48	47	38	34	33	89	102	1500	799	1410	108	75
6	48	45	38	34	33	82	108	1620	754	1260	100	70
7	48	44	39	34	35	79	108	1670	711	1050	89	72
8	46	44	39	33	34	76	100	1620	661	979	78	78
9	46	43	39	33	34	76	98	1690	636	979	78	78
10	46	43	39	33	34	81	98	1560	737	959	73	81
11	46	42	39	33	34	87	98	1530	1020	799	75	96
12	45	42	39	33	35	87	96	1370	1220	661	73	98
13	45	42	39	37	36	85	100	1130	1210	557	72	110
14	45	42	38	42	36	87	106	989	1080	505	76	182
15	46	42	38	38	36	90	128	911	1040	462	92	179
16	46	42	38	36	38	90	175	920	939	403	138	168
17	45	42	38	36	41	87	216	817	979	378	126	156
18	44	42	38	36	54	87	265	763	1280	343	128	141
19	58	42	37	34	57	96	337	855	1730	300	156	133
20	53	41	36	34	58	104	456	949	2090	289	126	138
21	49	39	36	33	56	112	636	1220	2170	279	110	153
22	47	39	36	33	51	114	677	1600	2140	265	92	150
23	46	40	36	33	48	112	737	1990	2130	256	85	144
24	45	39	36	33	47	108	808	2130	1920	238	76	141
25	43	40	36	32	46	106	949	1840	1620	225	75	136
26	42	40	36	32	46	108	1080	1600	1590	212	73	136
27	42	39	35	32	48	110	1110	1410	1400	204	72	136
28	42	39	35	32	55	108	1110	1250	1260	204	72	136
29	42	39	35	32	64	108	1250	1140	1210	202	70	141
30	42	39	35	32	---	108	1330	1070	1180	201	72	141
31	43	---	35	31	---	108	---	989	---	199	76	---
TOTAL	1429	1254	1157	1050	1220	2879	12690	41263	37209	19429	3070	3571
MEAN	46.1	41.8	37.3	33.9	42.1	92.9	423	1331	1240	627	99.0	119
MAX	58	47	39	42	64	114	1330	2130	2170	1670	197	182
MIN	42	39	35	31	32	68	96	763	636	199	70	70
AC-FT	2830	2490	2290	2080	2420	5710	25170	81850	73800	38540	6090	7080

CAL YR 1979 TOTAL 42568 MEAN 117 MAX 1050 MIN 35 AC-FT 84430
WTR YR 1980 TOTAL 126221 MEAN 345 MAX 2170 MIN 31 AC-FT 250400

13141000 BIG WOOD RIVER NEAR BELLEVUE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1973, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
OCT 18...	1106	44	347	--	6.0	9.5	--	--	--	--	--	--
DEC 10...	1412	40	344	8.2	-3.5	4.5	160	52	50	9.0	4.0	5
JAN 24...	1436	32	320	--	-4.5	2.5	--	--	--	--	--	--
MAR 20...	1300	105	342	--	4.5	7.0	--	--	--	--	--	--
MAY 15...	1345	922	218	8.6	7.5	8.0	100	15	30	6.5	3.2	6
JUL 08...	1530	1020	197	--	23.0	16.0	--	--	--	--	--	--
SEP 11...	1700	97	353	--	21.0	16.5	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC 10...	.1	1.7	110	18	21	.3	15	187	.25	20.2	.35	.010
JAN 24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 15...	.1	1.0	87	12	1.3	.2	13	125	.17	311	1.3	.060
JUL 08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 11...	--	--	--	--	--	--	--	--	--	--	--	--

13141500 CAMAS CREEK NEAR BLAINE, ID

LOCATION.--Lat 43°19'59", long 114°32'27", in NW¼SE¼ sec.15, T.1 S., R.16 E., Camas County, Hydrologic Unit 17040220, on left bank 0.2 mi (0.3 km) north of Macon siding on Hill City branch of Union Pacific Railroad, 0.2 mi (0.3 km) downstream from Willow Creek, 2.6 mi (4.2 km) upstream from maximum flow line of Magic Reservoir, 4 mi (6.4 km) southeast of Blaine, and at mile 7.0 (11.3 km).

DRAINAGE AREA.--648 mi² (1,678 km²). Mean altitude, 5,600 ft (1,707 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1912 to September 1921 and April 1923 to October 1925 (fragmentary), March 1926 to September 1944 (no winter records), October 1944 to current year. Published as Malad River near Blaine 1912-14.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 4,870 ft (1,484 m) by barometer. Prior to June 22, 1966, at site 600 ft (183 m) downstream at datum 0.66 ft (0.20 m) lower.

REMARKS.--Records good. Flow regulated by Mormon Reservoir on McKinney Creek, capacity, 31,240 acre-ft (38.5 hm³), and three minor reservoirs, combined capacity, 580 acre-ft (0.72 hm³). Diversions above station for irrigation of about 9,400 acres (3,800 hm²) of which about 1,500 acres (610 hm²) are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--36 years, 181 ft³/s (5.126 m³/s), 131,100 acre-ft/yr (162 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 9,780 ft³/s (277 m³/s) Apr. 8, 1943; maximum gage height, 16.2 ft or 4.94 m (site and datum then in use) Feb. 3, 1963, from floodmark; minimum discharge recorded, 1.2 ft³/s (34 dm³/s) Aug. 11, 12, 1959; minimum gage height, 1.04 ft or 0.317 m (site and datum then in use) Aug. 23, 25, 1963.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Apr. 6	2400	713	20.2	6.10	1.859	Apr. 22	0230	*1070	30.3	6.96	2.121

Minimum daily discharge, 2.4 ft³/s (68.0 dm³/s, Aug. 13.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 6 to Apr. 5)

2.9	2.0	3.3	14	4.5	172
3.0	3.5	3.5	24	5.0	327
3.1	6.4	3.7	40	6.0	710
3.2	9.8	4.0	74	7.0	1120

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	8.4	8.1	10	11	92	424	756	327	104	7.8	3.2
2	2.7	8.4	8.9	8.8	12	122	428	677	340	108	8.2	3.3
3	2.7	8.3	9.7	9.7	12	130	436	641	322	133	7.0	5.0
4	2.7	9.3	10	9.9	12	146	451	637	312	152	6.6	4.1
5	2.7	10	10	11	10	183	544	645	295	130	6.7	3.6
6	2.9	9.8	9.9	8.2	12	136	657	625	284	106	5.9	3.5
7	2.9	9.5	10	8.2	12	118	653	617	267	93	5.5	4.0
8	2.9	9.5	11	9.8	9.5	111	499	582	250	81	3.3	3.8
9	2.9	9.2	9.9	11	8.2	107	490	563	235	67	2.9	2.9
10	2.9	8.7	9.6	9.8	8.7	107	567	526	233	62	2.6	2.9
11	2.9	8.4	6.7	7.9	8.8	124	653	522	233	54	2.7	4.0
12	3.0	8.4	6.8	9.0	9.4	108	613	533	239	49	2.6	4.2
13	3.2	8.5	7.6	14	9.8	121	645	486	243	42	2.4	6.1
14	3.2	8.2	8.2	39	12	123	665	466	234	32	2.8	7.2
15	3.3	8.4	7.6	38	14	141	665	439	231	30	3.2	5.7
16	3.3	8.3	8.9	30	14	95	665	430	218	26	6.4	5.5
17	3.3	9.3	8.9	25	16	95	645	412	206	22	5.5	4.8
18	4.3	9.7	8.0	21	33	116	633	391	195	20	5.2	4.0
19	9.2	9.3	8.2	17	72	111	756	376	190	19	5.8	4.1
20	12	7.5	10	10	140	137	902	365	191	17	5.9	4.4
21	10	6.8	9.8	12	123	175	1000	366	194	15	5.6	5.4
22	11	7.3	9.6	12	96	191	1030	377	194	12	4.8	6.0
23	9.8	9.5	8.5	14	73	208	980	400	190	10	4.3	7.0
24	9.6	9.4	10	15	60	188	1020	419	182	8.3	3.6	7.7
25	9.0	9.2	10	14	57	191	1020	409	162	7.3	3.2	7.7
26	8.8	10	7.5	13	53	211	959	391	145	5.9	3.0	7.1
27	9.1	7.4	6.7	12	55	211	864	383	124	5.0	3.0	7.5
28	9.1	6.7	7.3	9.2	64	202	848	375	117	4.1	3.0	7.4
29	8.7	7.0	8.0	9.3	77	283	831	353	106	4.8	3.2	6.7
30	8.7	7.3	8.5	11	---	377	831	339	101	6.0	3.2	6.0
31	8.7	---	9.1	11	---	417	---	333	---	6.5	3.2	---
TOTAL	178.2	257.7	273.0	439.8	1094.4	5077	21374	14834	6560	1431.9	139.1	154.8
MEAN	5.75	8.59	8.81	14.2	37.7	164	712	479	219	46.2	4.49	5.16
MAX	12	10	11	39	140	417	1030	756	340	152	8.2	7.7
MIN	2.7	6.7	6.7	7.9	8.2	92	424	333	101	4.1	2.4	2.9
AC-FT	353	511	541	872	2170	10070	42400	29420	13010	2840	276	307

CAL YR 1979 TOTAL 20494.4 MEAN 56.1 MAX 730 MIN 2.3 AC-FT 40650
WTR YR 1980 TOTAL 51813.9 MEAN 142 MAX 1030 MIN 2.4 AC-FT 102800

13141500 CAMAS CREEK NEAR BLAINE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970 to current year.
REMARKS.--Miscellaneous chemical data published for water year 1973.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
18...	0830	3.8	213	--	-2.0	7.5	--	--	--	--	--	--
DEC												
10...	1200	10	244	8.2	-3.5	3.0	92	0	28	5.3	12	26
JAN												
23...	1430	14	247	--	-4.5	2.0	--	--	--	--	--	--
MAR												
20...	1000	133	202	--	-1.5	2.5	--	--	--	--	--	--
MAY												
14...	1530	460	142	8.4	14.0	13.5	59	5	18	3.3	6.1	18
JUL												
08...	1430	83	130	--	22.0	18.0	--	--	--	--	--	--
SEP												
12...	1145	3.7	253	--	15.0	14.0	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT												
18...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
10...	.5	2.1	110	6.2	3.4	.3	22	150	.20	4.09	1.1	.020
JAN												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
14...	.3	1.2	54	19	1.4	.2	18	101	.14	125	.28	.140
JUL												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	--	--	--	--	--	--	--	--	--	--

13142000 MAGIC RESERVOIR NEAR RICHFIELD, ID

LOCATION.--Lat 43°15'19", long 114°21'25", in SE¼NE¼NE¼ sec.18, T.2 S., R.18 E., Blaine County, Hydrologic Unit 17040219, at Magic Dam on Big Wood River, 18 mi (29 km) northwest of Richfield, and at mile 67.5 (108.6 km).

DRAINAGE AREA.--1,600 mi^2 (4,140 km^2), approximately.

PERIOD OF RECORD.--February 1909 to current year. Month-end contents only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1217: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 4,000 ft (1,219 m) Idaho Irrigation Co. datum, which is reported to be about 137 ft (42 m) below National Geodetic Vertical Datum. Datum of gages prior to Oct. 1, 1942, was 4,000 ft (1,219 m) lower. Datum of gages Oct. 1, 1942, to Sept. 30, 1974, was 800 ft (244 m) higher.

REMARKS.--Reservoir is formed by earth- and rock-fill dam, completed in 1909, and raised 5 ft (1.5 m) in 1917. Capacity is 191,500 acre-ft (236 hm^3) between gage heights 821.4 ft (250.36 m), 2.9 ft above bottom of outlet pipe and 935.0 ft (285.0 m), top of 5-ft flashboards. Dead storage unknown. Water is used for irrigation of about 68,000 acres (27,500 hm^2) of land in Carey Act project of Big Wood Canal Co. Diversions above station for irrigation of about 32,600 acres (13,200 hm^2) of which about 1,900 acres (769 hm^2) are by withdrawals from ground water (1966 determination). Figures given herein represent usable contents including bank storage. Gage read in the morning.

COOPERATION.--Gage readings and capacity table furnished by Water District 37.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 195,400 acre-ft (241 hm^3) May 11-13, 1969, gage height, 936.0 ft (285.29 m), present datum; no storage for several days in 1909, 1919-20, 1924, 1928, 1935.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 193,500 acre-ft (239 hm^3) May 24, gage height, 935.5 ft (285.14 m); minimum observed, 7,150 acre-ft (8.82 hm^3) Oct. 20, gage height, 847.0 ft (258.17 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

840	3,660	880	47,700	920	139,500
850	9,190	890	66,800	930	172,600
860	18,400	900	87,700	936	195,400
870	31,200	910	111,900		

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8410	9050	10700	14500	18700	28000	50400	127200	192700	191900	165100	117900
2	8340	9190	10800	14600	18900	28400	51500	133600	192300	192300	163400	116600
3	8480	9270	10900	14800	19500	28900	52300	137100	192300	192300	161700	115500
4	8620	9420	11100	14800	19500	29800	54000	140700	191900	192700	160000	113900
5	8760	9640	11300	15000	19700	30800	55500	144700	191900	192300	158300	112600
6	8830	9870	11400	15100	19800	31700	57200	149100	192300	191900	156600	111400
7	8980	10000	11600	15200	20000	32300	58900	153300	191900	191500	154900	110100
8	9120	10200	11700	15300	20100	32900	60500	156900	192300	191900	153300	108800
9	9270	10300	11800	15400	20200	33300	61700	161000	192300	191900	151300	107800
10	9420	10500	11900	15600	20300	33900	63000	164800	192300	192300	149700	106000
11	9490	10700	12000	15700	20300	34600	64600	168000	192300	192300	148100	105000
12	9640	10700	12100	15800	20400	35300	66400	170800	192700	191900	146600	104000
13	9720	10900	12300	16000	20400	36000	68000	173000	192300	191100	144700	103000
14	9800	10400	12400	16400	20500	36600	69400	175200	192300	190300	143100	102000
15	9870	9570	12500	16800	20900	37200	71200	176600	191900	189500	141900	101100
16	9720	8620	12700	17000	21000	37900	72800	178500	191900	188400	140700	100100
17	9120	8830	12800	17200	21300	38500	74700	180000	191900	187200	138900	99400
18	8270	8980	12900	17500	21700	38900	76500	181500	191900	186100	137400	98900
19	7540	9120	13000	17700	22100	39400	78800	183000	192300	184500	136200	98200
20	7150	9190	13100	17800	23100	40000	83500	184100	193100	183400	134800	97500
21	7280	9340	13200	17800	23800	40900	84800	185700	192700	181900	133300	96700
22	7540	9490	13300	17900	24600	41400	89300	188000	192300	180700	131900	96000
23	7670	9640	13500	18100	25000	42400	93000	191100	191900	179200	130800	95300
24	7800	9800	13600	18300	25500	43100	97200	193500	192300	177700	129100	94400
25	8000	9950	13800	18400	25800	44000	101800	192700	192300	176300	127700	94100
26	8140	10100	13800	18500	26100	44800	106800	191900	191900	174800	126300	93400
27	8270	10300	13900	18600	26300	45600	111400	191100	191900	173000	124900	92800
28	8410	10300	14000	18700	26600	46300	114500	189900	191900	171500	123600	92100
29	8620	10400	14100	18700	27100	47000	120900	189900	191900	170400	121900	91400
30	8760	10500	14200	18700	---	48100	125800	191100	191900	168300	120600	90700
31	8900	---	14400	18700	---	49200	---	192300	---	166900	119200	---
MAX	9870	10900	14400	18700	27100	49200	125800	193500	193100	192700	165100	117900
MIN	7150	8620	10700	14500	18700	28000	50400	127200	191900	166900	119200	90700
(†)	4849.6	4851.7	4856.1	4860.3	4867.1	4880.8	4915.2	4935.2	4935.1	4928.4	4912.8	4901.3
(‡)	+510	+1600	+3900	+4300	+8400	+22100	+76600	+66500	-400	-25000	-47700	-28500

CAL YR 1979........... ‡ -95400
WTR YR 1980........... ‡ +82310

† Elevation, in feet, at end of month.
‡ Change in contents, in acre-feet.

13142500 BIG WOOD RIVER BELOW MAGIC DAM, NEAR RICHFIELD, ID

LOCATION.--Lat 43°15'00", long 114°21'30", in NE¼SE¼ sec.18, T.2 S., R.18 E., Blaine County, Hydrologic Unit 17040219, Bureau of Land Management lands, on right bank 0.5 mi (0.8 km) downstream from Magic Dam, 18 mi (28.9 km) northwest of Richfield, and at mile 67.0 (107.8 km).

DRAINAGE AREA.--1,600 mi² (4,140 km²), approximately.

PERIOD OF RECORD.--April 1911 to current year (no winter records 1912).

GAGE.--Water-stage recorder. Datum of gage is 4,661.6 ft (1,420.85 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those below 5 ft³/s (0.142 m³/s), which are fair. Flow regulated by Magic Reservoir 0.5 mi (0.8 km) upstream (see sta 13142000), Mormon Reservoir on tributary of Camas Creek (capacity, 31,240 acre-ft or 38.5 hm³), and smaller reservoirs having combined capacity of about 680 acre-ft (0.838 hm³). Diversions above station for irrigation of about 32,600 acres (13,190 hm²) of which about 1,900 acres (770 hm²) are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--68 years (1913-80), 459 ft³/s (13.00 m³/s), 332,500 acre-ft/yr (410 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft³/s (283 m³/s) Apr. 26, 1952, gage height, 15.68 ft (4.78 m), from floodmark; no flow Feb. 3, 1915.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,130 ft³/s (88.6 m³/s) May 24, gage height, 7.25 ft (2.210 m); minimum daily, 1.5 ft³/s (0.042 m³/s) Dec. 10, 14.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 26-28, Dec. 11-13, 15, 18, 26, Jan. 22 to Feb. 3, Feb. 9-12)

1.6	0.40	2.5	74
1.7	2.0	3.0	187
1.8	4.8	3.5	360
1.9	9.3	4.0	606
2.0	15	5.0	1250
2.2	34	7.0	2950

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	2.8	1.7	1.8	2.0	3.1	4.2	450	1420	1210	989	811
2	3.7	2.8	1.8	1.8	2.0	3.4	4.2	495	1460	1250	984	810
3	3.6	2.8	1.8	1.7	2.0	3.4	4.2	470	1430	1440	982	812
4	3.5	2.8	1.7	1.8	2.3	3.1	4.5	460	1310	1860	1000	786
5	3.4	2.8	1.7	1.7	2.0	3.7	4.5	525	1170	1920	979	786
6	3.5	2.5	1.7	1.7	2.0	3.4	4.5	590	1130	1460	964	794
7	3.7	2.5	1.8	1.8	2.3	3.1	4.2	640	976	996	947	794
8	3.6	2.8	1.8	1.8	2.0	3.1	4.8	646	924	1010	936	782
9	3.6	2.8	1.7	1.8	2.3	3.4	4.8	681	940	1020	932	769
10	3.4	2.8	1.5	1.7	2.3	3.4	4.5	699	963	1050	930	757
11	3.3	2.8	2.0	1.8	2.3	3.4	5.2	712	1180	1060	928	711
12	3.1	2.5	1.8	2.3	2.3	3.1	5.2	699	1680	1060	881	694
13	3.1	168	1.7	2.0	2.3	3.4	5.2	669	1620	1060	881	711
14	28	404	1.5	2.0	2.3	3.4	5.6	664	1510	1040	876	712
15	108	475	1.7	2.0	2.3	3.1	5.2	667	1260	1050	867	646
16	290	153	1.7	1.8	2.5	3.4	5.6	647	1250	1070	865	533
17	399	2.8	1.7	2.0	2.8	3.4	6.0	602	1130	1040	864	463
18	431	2.5	1.7	2.0	3.7	3.4	6.0	663	1130	1040	866	503
19	360	2.3	1.7	2.0	3.1	3.4	6.0	682	1440	1050	868	530
20	95	2.3	1.7	2.0	3.1	3.7	6.4	695	2120	1050	868	530
21	3.7	2.3	1.7	2.0	2.8	3.7	6.4	717	2340	1040	833	528
22	3.4	2.0	1.7	2.0	2.8	3.7	6.4	726	2280	1040	812	509
23	3.1	2.0	1.7	2.0	2.5	3.7	6.4	1070	1990	1030	827	497
24	3.1	2.0	1.8	2.0	2.5	3.7	6.9	2750	1810	1030	836	484
25	3.1	2.0	1.8	2.0	2.5	3.7	6.9	2750	1790	1020	827	476
26	2.8	1.9	1.9	2.0	2.5	3.7	7.3	2520	1660	1020	817	475
27	3.1	1.9	1.7	2.0	2.8	4.0	7.3	2290	1500	1010	815	475
28	3.1	1.9	1.7	2.0	2.8	4.0	7.8	1800	1460	1010	814	473
29	3.1	1.8	1.8	2.0	2.8	4.0	9.3	1070	1380	1000	813	471
30	3.1	1.8	1.8	2.0	---	3.7	241	799	1190	999	813	470
31	2.8	---	1.7	2.0	---	4.0	---	1140	---	994	812	---
TOTAL	1791.1	1262.2	53.7	59.5	71.9	108.7	406.5	29988	43443	34929	27426	18792
MEAN	57.8	42.1	1.73	1.92	2.48	3.51	13.6	967	1448	1127	885	626
MAX	431	475	2.0	2.3	3.7	4.0	241	2750	2340	1920	1000	812
MIN	2.8	1.8	1.5	1.7	2.0	3.1	4.2	450	924	994	812	463
AC-FT	3550	2500	107	118	143	216	806	59480	86170	69280	54400	37270

CAL YR 1979 TOTAL 116989.4 MEAN 321 MAX 1020 MIN 1.5 AC-FT 232000
WTR YR 1980 TOTAL 158331.6 MEAN 433 MAX 2750 MIN 1.5 AC-FT 314100

13147900 LITTLE WOOD RIVER ABOVE HIGH FIVE CREEK, NEAR CAREY, ID

LOCATION.--Lat 43°29'30", long 114°03'30", about center of sec.22, T.2 N., R.20 E., Blaine County, on left bank above maximum flow line of Little Wood Reservoir, 0.4 mi (0.6 km) downstream from Copper Creek, 0.6 mi (1 km) upstream from High Five Creek, 13.5 mi (21.7 km) northwest of Carey, and at mile 73.0 (117.5 km).

DRAINAGE AREA.--248 mi² (642 km²). Mean altitude, 7,220 ft (2,200 m).

PERIOD OF RECORD.--October 1958 to September 1974, October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5,320 ft (1,620 m) by barometer.

REMARKS.--Records good except those for winter period, which are fair. Diversions above station for irrigation of about 1,300 acres (526 hm²), 1966 determination.

AVERAGE DISCHARGE.--17 years, 162 ft³/s (4.59 m³/s), 117,400 acre-ft/yr (145 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,480 ft³/s (70.2 m³/s) Apr. 22, 1969, gage height, 7.01 ft (2.137 m); minimum, 16 ft³/s (0.45 m³/s) Aug. 20, 1961, gage height, 1.38 ft (0.421 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,470 ft³/s (41.6 m³/s) Apr. 20, gage height, 5.41 ft (1.649 m); minimum, 21 ft³/s (0.59 m³/s) Nov. 20, gage height, 1.07 ft (0.326 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Nov. 27 to Dec. 1, Dec. 11-15, 18-19, 26-31, Jan. 2, 6-9, 11, 20-23, Jan. 27 to Feb. 3, Feb. 8-14)

1.2	27	2.5	219
1.4	46	3.0	341
1.7	82	4.0	697
2.0	125	5.0	1210

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	46	47	48	52	58	78	852	551	393	105	60
2	30	44	47	49	52	63	83	890	630	396	101	59
3	30	47	51	45	52	63	90	861	598	495	99	62
4	30	54	50	47	49	63	99	814	582	415	95	59
5	30	52	49	47	59	66	125	823	536	399	88	60
6	30	51	48	45	47	63	125	823	503	375	81	59
7	30	50	49	46	45	63	105	809	467	346	75	61
8	30	50	49	49	45	63	106	763	430	338	73	69
9	30	50	49	50	43	60	122	710	446	341	71	64
10	30	50	49	46	44	64	135	634	517	335	68	67
11	30	50	42	45	46	69	140	680	614	284	69	83
12	30	47	38	45	47	65	176	614	578	256	66	77
13	30	48	42	60	48	65	232	525	495	239	63	114
14	30	47	44	80	48	69	309	506	463	226	59	140
15	33	47	46	80	47	67	396	492	430	205	72	112
16	36	47	45	71	46	61	463	514	396	193	84	93
17	34	52	44	66	47	63	555	481	399	194	84	83
18	35	51	44	59	56	66	667	485	467	189	76	79
19	69	44	46	53	65	63	818	495	578	177	80	77
20	50	38	45	45	67	65	1030	514	590	172	78	76
21	44	47	44	48	63	70	998	602	590	166	71	85
22	42	47	44	50	58	70	950	741	598	163	69	78
23	41	49	41	54	53	75	1030	842	578	155	68	76
24	40	45	44	51	56	78	1110	741	478	149	65	74
25	41	48	45	56	52	75	1100	638	446	133	62	73
26	43	47	45	53	52	74	1040	606	474	129	67	71
27	45	45	41	49	52	79	940	559	430	123	66	73
28	49	35	37	46	56	72	900	532	396	118	62	72
29	47	37	40	47	57	76	925	532	387	114	61	74
30	45	44	45	48	---	76	890	532	402	113	62	72
31	46	---	48	50	---	74	---	540	---	107	64	---
TOTAL	1160	1409	1398	1628	1504	2098	15737	20150	15049	7438	2304	2302
MEAN	37.4	47.0	45.1	52.5	51.9	67.7	525	650	502	240	74.3	76.7
MAX	69	54	51	80	67	79	1110	890	630	495	105	140
MIN	30	35	37	45	43	58	78	481	387	107	59	59
AC-FT	2300	2790	2770	3230	2980	4160	31210	39970	29850	14750	4570	4570

WTR YR 1980 TOTAL 72177 MEAN 197 MAX 1110 MIN 30 AC-FT 143200

13148200 LITTLE WOOD RESERVOIR NEAR CAREY, ID

LOCATION.--Lat 43°25'30", long 114°01'30", in SW¼ sec.12, T.1 N., R.20 E., Blaine County, Hydrologic Unit 17040221, at gate-control structure near right end of Little Wood Dam on Little Wood River, 8.5 mi (13.7 km) northwest of Carey, and at mile 78.8 (126.8 km).

DRAINAGE AREA.--279 mi² (723 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Nonrecording gage. Datum of gage is 5,100 ft (1,554 m) National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation).

REMARKS.--Reservoir is formed by earth- and rock-fill dam constructed in 1939 and raised 39.9 ft (12.2 m) in 1959. Storage began Feb. 12, 1941. Capacity of reservoir is 29,960 acre-ft (36.9 hm³) between gage heights 27.4 (8.4 m), 0.4 ft (0.1 m) below bottom of outlet gates, and 137.3 ft (41.8 m), spillway crest. Water is used for irrigation of land near Carey. Contents shown for days when readings were furnished and at monthend. Readings are made at various times of the day.

COOPERATION.--Gage readings and capacity table furnished by Water and Power Resources Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 30,940 acre-ft (38.1 hm³) June 10, 1963, gage height, 138.99 ft (42.364 m); minimum observed, 66 acre-ft (0.081 hm³) Aug. 17, 1959, gage height, 30.22 ft (9.211 m), but may have been less during period Aug. 14 to Sept. 13, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 30,300 acre-ft (37.6 hm³) May 24, gage height, 137.90 ft (42.032 m); minimum contents observed, 2,310 acre-ft (2.848 hm³) Oct. 12, gage height, 58.70 ft (17.892 m).

Capacity table (gage height, in feet, and contents, in acre-feet)

36.0	286	80.0	6,370
40.0	504	90.0	9,160
50.0	1,300	100.0	12,500
60.0	2,490	120.0	20,900
70.0	4,150	140.0	31,500

RESERVOIR STORAGE (AC-FT), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
AM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2570	3570	6730	8990	12600	15900	17600	28700	30100	30100	19800	12000
2	---	---	---	---	---	---	---	29000	30100	30100	19400	11900
3	---	---	---	---	---	---	---	29200	30100	---	---	---
4	---	---	---	---	---	---	17600	29400	30100	---	---	11600
5	---	---	---	---	---	---	---	29500	30000	---	---	---
6	---	---	---	---	---	---	---	29700	30000	30000	17900	---
7	---	---	7180	---	---	---	---	29800	30000	---	---	---
8	---	---	---	---	---	---	17600	30000	30000	---	---	11400
9	---	---	---	---	---	---	---	30000	30000	---	---	---
10	---	---	---	---	---	---	---	29900	30000	29800	---	---
11	---	---	---	---	---	---	17000	29900	30000	---	16200	---
12	2310	---	---	---	---	---	---	30100	30000	---	---	10900
13	---	---	---	---	---	---	16900	29900	30000	27800	15300	11000
14	---	---	---	---	---	17100	---	29900	30000	---	14700	---
15	---	---	---	---	---	---	17300	30000	30000	---	14700	---
16	---	---	---	---	14200	---	17400	30000	30000	---	14400	---
17	---	---	---	---	---	---	18700	30000	30000	---	14200	---
18	---	5560	---	---	---	---	18900	30100	30000	---	---	---
19	---	---	8150	---	---	---	19100	30200	30100	---	---	---
20	2570	---	---	---	---	---	19800	30100	30100	---	13300	11600
21	---	---	---	---	---	17800	21300	30100	30200	24700	---	---
22	---	---	---	11800	---	---	22800	30100	30200	---	---	---
23	---	---	---	---	---	---	24600	30100	30200	---	---	---
24	---	---	---	---	---	---	25300	30300	30100	---	---	---
25	---	---	---	---	---	---	26800	30100	30100	---	---	---
26	---	---	---	---	---	---	27000	30000	30000	22400	---	---
27	---	---	6730	---	---	---	27100	30000	30000	21900	12700	---
28	---	---	---	---	---	---	27800	30000	30000	---	---	---
29	---	---	---	---	15900	---	27600	30000	30000	20700	---	---
30	3570	6730	---	---	---	17600	28600	30000	30100	---	---	12100
31	---	---	8990	12600	---	17600	---	30000	---	20200	12000	---
MAX	---	---	---	---	---	---	---	30300	30200	---	---	---
MIN	---	---	---	---	---	---	---	28700	30000	---	---	---
(†)	66.83	81.41	89.45	100.35	108.80	112.74	134.90	137.41	137.48	118.51	98.71	99.04
(‡)	+1310	+3160	+2260	+3610	+3300	+1700	+11000	+1400	+100	-9900	-8200	+100

CAL YR 1979.............. ‡ -8010
WTR YR 1980.............. ‡ +9840

† Gage height, in feet, at end of month.
‡ Change in contents, in acre-feet, at end of month.

13148500 LITTLE WOOD RIVER NEAR CAREY, ID

LOCATION.--Lat 43°23'20", long 114°00'00", in E½ sec.30, T.1 N., R.21 E., Blaine County, Hydrologic Unit 17040221, on right bank 0.3 mi (0.5 km) upstream from West Canal, 1.3 mi (2.1 km) upstream from East Canal, 2 mi (3.2 km) downstream from Little Fish Creek, 3 mi (4.8 km) downstream from Little Wood Reservoir, 6 mi (9.7 km) northwest of Carey, and at mile 75.5 (121.5 km).

DRAINAGE AREA.--312 mi² (808 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1904 to May 1905 (gage heights and discharge measurements only), September 1926 to November 1942, April 1943 to current year. Monthly discharge only for some periods, published in WSP 1317. Records for February 1920 to September 1926 at site 6 mi (9.7 km) upstream not equivalent owing to diversion and inflow.

GAGE.--Water-stage recorder. Datum of gage is 4,990.59 ft (1,521 m) National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). Apr. 28, 1904, to May 31, 1905, nonrecording gage, Sept. 20, 1926, to Apr. 22, 1938, water-stage recorder, and Apr. 23 to Aug. 17, 1938, nonrecording gage, all at datum 0.74 ft (0.23 m) higher.

REMARKS.--Records fair except those for winter period, which are poor. Flow regulated by Little Wood Reservoir 3 mi (4.8 km) upstream (see sta 13148200) and other upstream storage in Campbell, Cameron, and Howard Reservoirs on South Fork Muldoon and Little Fish Creeks, combined capacity, 690 acre-ft (0.85 hm³). Diversions above station for irrigation of about 1,500 acres (610 hm²), 1966 determination.

AVERAGE DISCHARGE.--53 years (1927-42, 1944-80), 150 ft³/s (4.25 m³/s), 108,700 acre-ft/yr (134 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s (170 m³/s), due to failure of reservoirs on Little Fish Creek Apr. 20, 1938, gage height, 12.81 ft (3.904 m), present datum, from floodmark, from rating curve extended above 1,800 ft³/s (51.0 m³/s); maximum discharge since dam failure, 2,680 ft³/s (75.9 m³/s) Apr. 27, 1952, gage height, 8.95 ft (2.728 m); minimum, 1 ft³/s (28 m³/s) Jan. 26, 1945, Jan. 20, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,120 ft³/s (31.7 m³/s) Apr. 26, gage height, 6.05 ft (1.844 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Nov. 6.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 8 to Jan. 2, Jan. 20, 21)

1.3	0.7	2.5	57
1.4	1.4	3.0	125
1.5	2.5	3.5	220
1.7	6.5	4.0	340
1.9	13	4.5	485
2.1	22	5.0	653
2.3	37	6.0	1070

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	2.0	2.1	2.1	2.2	3.4	105	580	553	398	262	125
2	29	1.6	2.1	2.2	2.1	3.8	106	712	597	400	260	120
3	29	1.4	2.1	2.3	2.1	4.1	110	926	606	415	248	125
4	29	1.4	2.0	2.4	2.2	4.6	132	781	612	450	237	122
5	29	1.3	2.0	2.4	2.9	5.4	177	643	591	420	237	122
6	29	1.2	1.9	2.5	2.6	6.2	197	639	548	400	244	122
7	29	1.3	2.0	2.6	2.5	7.0	203	701	519	425	256	124
8	30	1.5	2.0	2.7	2.4	9.0	233	765	474	430	243	128
9	30	1.6	2.1	2.7	2.4	45	242	739	446	435	215	128
10	30	1.6	2.0	2.7	2.4	51	240	611	451	448	179	130
11	29	1.6	1.9	2.8	2.5	53	240	694	537	453	172	76
12	15	1.5	1.9	3.0	2.6	54	244	720	593	465	147	70
13	15	1.5	1.9	4.4	2.6	54	251	590	557	462	136	61
14	15	1.5	2.0	37	2.7	54	251	494	483	461	135	70
15	15	1.6	2.1	37	2.7	54	203	475	446	444	135	84
16	15	1.7	2.1	23	2.7	55	167	482	427	433	153	77
17	15	1.8	2.1	16	2.7	55	448	517	405	431	162	73
18	15	1.9	2.0	12	2.7	56	765	523	411	430	160	70
19	19	1.9	2.0	10	3.1	56	754	557	489	425	165	68
20	16	1.7	2.0	9.5	3.3	55	646	538	559	419	171	66
21	15	1.6	2.1	8.8	3.5	61	448	574	569	397	171	72
22	10	1.8	2.1	8.1	3.1	70	392	702	571	382	171	70
23	9.4	1.9	2.1	7.3	2.8	80	433	813	583	368	171	70
24	9.2	2.0	2.0	5.5	2.8	90	653	848	526	366	169	68
25	9.0	1.8	2.0	3.1	2.8	96	922	757	470	363	143	67
26	9.0	2.0	1.9	2.9	2.9	98	1000	678	447	362	140	67
27	9.0	1.9	1.8	2.8	3.0	100	856	606	419	360	119	68
28	9.1	1.8	1.8	2.7	3.1	102	840	535	405	344	130	68
29	9.3	1.8	1.9	2.6	3.3	105	580	506	384	337	130	70
30	8.4	2.1	2.0	2.4	---	105	788	522	392	311	131	70
31	3.2	---	2.0	2.3	---	105	---	536	---	285	132	---
TOTAL	562.6	50.3	62.0	227.8	78.7	1697.5	12626	19764	15070	12519	5524	2651
MEAN	18.1	1.68	2.00	7.35	2.71	54.8	421	638	502	404	178	88.4
MAX	30	2.1	2.1	37	3.5	105	1000	926	612	465	262	130
MIN	3.2	1.2	1.8	2.1	2.1	3.4	105	475	384	285	119	61
AC-FT	1120	100	123	452	156	3370	25040	39200	29890	24830	10960	5260

CAL YR 1979 TOTAL 36776.0 MEAN 101 MAX 430 MIN 1.2 AC-FT 72950
WTR YR 1980 TOTAL 70832.9 MEAN 194 MAX 1000 MIN 1.2 AC-FT 140500

NOTE.--No gage-height record Nov. 6 to Dec. 7, Jan. 22 to Mar. 27, Mar. 30 to Apr. 3, July 2-10, Aug. 31 to Sept. 8, Sept. 14-30.

13148500 LITTLE WOOD RIVER NEAR CAREY, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973 to current year.
REMARKS.--Miscellaneous chemical data published for water years 1973-74.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
12...	1530	15	158	--	12.0	15.0	--	--	--	--	--	--
DEC												
07...	1300	1.9	318	7.9	.5	3.5	150	0	41	11	15	23
JAN												
22...	1600	8.1	247	--	-8.0	.5	--	--	--	--	--	--
MAR												
21...	1418	55	280	--	1.5	5.5	--	--	--	--	--	--
MAY												
19...	1430	541	176	8.7	15.5	10.5	77	14	21	6.0	4.1	10
JUL												
10...	1515	449	178	--	28.0	12.5	--	--	--	--	--	--
SEP												
08...	1500	128	208	--	23.5	17.0	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT												
12...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
07...	.5	3.8	150	13	6.3	.2	21	204	.28	1.06	.50	.050
JAN												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
19...	.2	1.4	63	9.1	2.2	.1	15	102	.14	149	1.2	.080
JUL												
10...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
08...	--	--	--	--	--	--	--	--	--	--	--	--

13150430 SILVER CREEK AT SPORTSMAN ACCESS, NEAR PICABO, ID

LOCATION.--Lat 43°19'22", long 114°06'29", in SE¼NW¼ sec.20, T.1 S., R.20 E., Blaine County, Hydrologic Unit 17040221, on right bank at sportsman access road crossing to campground, 0.6 mi (1.0 km) downstream from State Highway 68 crossing, 2.3 mi (3.7 km) northwest of Picabo, and 4.3 mi (6.9 km) southeast of Gannett.

DRAINAGE AREA.--70 mi² (181 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 4,850 ft (1,478 m) from topographic map.

REMARKS.--Records poor. No regulation. Several diversions above station for irrigation.

AVERAGE DISCHARGE.--6 years (1975-80), 169 ft³/s (4.786 m³/s), 122,400 acre-ft/yr (151 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 502 ft³/s (14.2 m³/s) Apr. 6, 1976, gage height, 8.35 ft (2.545 m); maximum gage height, 8.75 ft (2.667 m) Sept. 6, 1978 (backwater from aquatic growth); minimum daily, 69 ft³/s (1.95 m³/s) June 30, July 17, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 405 ft³/s (11.5 m³/s) Feb. 19, gage height, 8.01 ft (2.441 m); minimum, 91 ft³/s (2.58 m³/s) May 8, gage height, 6.47 ft (1.972 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	143	132	136	132	203	157	132	183	141	165	181
2	122	143	132	132	134	205	155	127	194	141	165	178
3	120	143	134	134	134	198	157	127	192	153	161	172
4	124	151	134	134	134	209	157	123	196	153	161	170
5	132	151	134	139	134	236	157	120	200	153	163	161
6	141	151	136	149	134	209	159	120	192	149	163	155
7	144	151	136	141	134	196	157	117	183	151	165	159
8	141	149	136	134	134	185	155	105	181	153	172	155
9	140	139	136	134	134	181	155	105	176	153	178	161
10	138	147	137	137	134	185	153	103	168	151	176	161
11	137	145	136	205	136	200	151	118	159	151	178	181
12	138	145	132	233	132	198	147	128	149	153	178	198
13	136	147	130	194	130	187	147	123	145	153	185	209
14	137	147	130	207	130	187	145	120	145	149	183	227
15	140	145	132	181	134	194	145	117	139	149	185	240
16	154	145	132	165	136	183	143	120	134	151	211	227
17	155	145	132	163	161	178	141	122	125	151	227	220
18	139	147	130	157	286	183	141	118	127	149	222	211
19	165	147	130	149	352	185	139	120	145	151	213	218
20	165	145	132	153	291	190	137	122	153	153	211	213
21	159	145	130	145	275	198	128	120	128	153	203	213
22	153	139	134	151	207	192	141	120	125	145	198	211
23	149	141	134	143	187	187	137	122	125	143	196	200
24	145	143	137	141	176	183	139	132	123	143	196	196
25	145	141	137	141	172	178	157	141	125	147	192	207
26	143	145	130	134	172	174	151	149	120	147	194	207
27	143	147	130	132	183	174	147	157	122	149	187	198
28	143	141	132	132	192	174	139	161	125	155	178	192
29	145	137	134	132	194	170	130	163	130	161	176	185
30	143	134	136	132	---	168	132	163	134	163	181	185
31	143	---	136	132	---	161	---	170	---	159	178	---
TOTAL	4398	4339	4133	4692	4984	5851	4399	3985	4543	4673	5741	5791
MEAN	142	145	133	151	172	189	147	129	151	151	185	193
MAX	165	151	137	233	352	236	159	170	200	163	227	240
MIN	119	134	130	132	130	161	128	103	120	141	161	155
AC-FT	8720	8610	8200	9310	9890	11610	8730	7900	9010	9270	11390	11490

CAL YR 1979 TOTAL 52569 MEAN 144 MAX 335 MIN 96 AC-FT 104300
WTR YR 1980 TOTAL 57529 MEAN 157 MAX 352 MIN 103 AC-FT 114100

13150430 SILVER CREEK AT SPORTSMAN ACCESS, NEAR PICABO, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
17...	1036	146	371	--	4.5	8.5	--	--	--	--	--	--
DEC												
12...	0948	123	321	7.6	-11.5	.5	210	27	60	14	5.2	7
JAN												
17...	1100	164	340	--	-.5	5.5	--	--	--	--	--	--
MAR												
22...	0900	191	389	--	-3.0	4.5	--	--	--	--	--	--
MAY												
16...	1130	119	373	8.4	4.5	10.0	200	23	58	14	5.1	5
JUL												
09...	1540	153	372	--	26.0	19.5	--	--	--	--	--	--
SEP												
10...	0900	182	395	--	13.0	13.0	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, DISSOLVED (TONS PER AC-FT)	SOLIDS, DISSOLVED (TONS PER DAY)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT												
17...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
12...	.2	1.3	180	17	2.2	.2	16	228	.31	75.7	.82	.080
JAN												
17...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	.2	4.3	180	15	4.4	.3	14	231	.31	74.2	1.7	.010
JUL												
09...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
10...	--	--	--	--	--	--	--	--	--	--	--	--

13152500 BIG WOOD RIVER NEAR GOODING, ID

LOCATION.--Lat 42°53'12", long 114°48'08", in NE¼NE¼SW¼ sec.21, T.6 S., R.14 E., Gooding County, Hydrologic Unit 17040219, on right bank at Hudson Ranch, 3.1 mi (5.0 km) downstream from bridge on Bliss-Gooding highway, 4.2 mi (6.8 km) downstream from Little Wood River, 5.5 mi (8.8 km) upstream from diversion dam for King Hill project, 6 mi (9.7 km) southwest of Gooding, and at mile 7.2 (11.6 km).

DRAINAGE AREA.--2,990 mi² (7,740 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1916 to current year (fragmentary October 1923 to September 1926; no winter records for water years 1923, 1936-37, 1942; irrigation seasons only for water years 1927-35). October 1950 to September 1959, published as Malad River near Gooding.

REVISED RECORDS.--WSP 1347: 1934.

GAGE.--Water-stage recorder. Altitude of gage is 3,345 ft (1,020 m) from topographic map. Prior to Apr. 13, 1921, nonrecording gage at present site and datum.

REMARKS.--Records good except those for December, January, and July, which are poor. Flow regulated by Magic Reservoir (see sta 13142000) and by several smaller reservoirs on tributaries and affected by deliveries from canals diverting from Snake River at Milner. Diversions above station for irrigation of about 144,000 acres (58,300 hm²) of which about 4,000 acres (1,620 hm²) are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--48 years (1917-22, 1938-41, 1943-80), 268 ft³/s (7.59 m³/s), 194,200 acre-ft/yr (239 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,860 ft³/s (251 m³/s) Dec. 22, 1964, gage height, 12.15 ft (3.703 m), from floodmarks; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,610 ft³/s (73.9 m³/s) Jan. 14, gage height, 7.70 ft (2.347 m); minimum, 0.90 ft³/s (0.025 m³/s) Oct. 15, gage height, 0.40 ft (0.122 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used Mar. 16 to Apr. 6, Apr. 19 to May 6, May 12 to June 25, Sept. 11-30; stage-discharge relation affected by ice Dec. 5 to Jan. 12, Jan. 26-28, Jan. 31 to Feb. 1)

0.3	0	0.8	6.8	3.0	256
.4	.3	1.0	13	4.0	485
.5	1.5	1.4	36	5.0	785
.6	2.9	2.0	96	6.0	1210
				7.4	2250

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	71	4.6	14	43	162	72	425	703	350	148	153
2	400	73	5.2	16	39	148	71	434	1020	215	148	169
3	404	83	7.1	19	117	135	70	462	1160	185	142	181
4	428	101	7.3	25	104	135	62	442	1160	170	147	156
5	433	91	7.5	32	102	129	56	501	1100	160	167	156
6	418	50	7.5	29	95	118	65	460	945	504	183	147
7	376	40	8.5	23	105	119	113	353	883	580	135	136
8	349	13	9.8	28	92	109	246	300	827	595	145	183
9	272	28	10	43	89	94	167	264	688	190	105	216
10	187	25	9.7	55	89	89	124	313	528	140	88	223
11	361	12	7.3	73	85	92	223	390	427	140	99	434
12	98	9.1	8.0	100	83	89	237	467	410	120	102	545
13	21	13	9.5	122	82	84	357	496	782	110	105	528
14	3.2	15	11	1470	84	86	317	534	865	250	88	620
15	20	47	12	1780	89	84	290	496	872	115	66	647
16	41	76	11	1060	129	78	319	465	644	130	71	602
17	28	71	11	779	364	78	307	528	537	125	92	573
18	22	74	14	439	1400	89	298	537	437	140	150	491
19	26	55	16	216	1680	79	475	507	322	110	191	475
20	60	47	17	135	1470	77	752	454	395	115	197	499
21	108	42	16	96	792	81	716	395	890	115	204	553
22	90	30	15	81	507	85	623	333	1130	110	173	579
23	73	11	14	92	286	86	472	351	1080	100	151	614
24	55	8.8	13	88	449	83	449	509	872	100	129	614
25	50	13	15	77	220	79	434	1470	750	80	117	582
26	53	9.1	13	76	178	74	512	2200	720	81	99	588
27	61	5.2	10	73	147	68	675	2030	630	91	101	579
28	79	5.2	9.0	71	175	70	710	1790	520	100	95	591
29	84	2.3	9.5	65	202	74	614	1380	420	108	102	570
30	81	2.9	9.5	36	---	73	523	938	365	115	114	539
31	71	---	11	50	---	75	---	697	---	122	141	---
TOTAL	5152.2	1123.6	329.0	7263	9297	2922	10349	20921	22082	5566	3995	12943
MEAN	166	37.5	10.6	234	321	94.3	345	675	736	180	129	431
MAX	433	101	17	1780	1680	162	752	2200	1160	595	204	647
MIN	3.2	2.3	4.6	14	39	68	56	264	322	80	66	136
AC-FT	10220	2230	653	14410	18440	5800	20530	41500	43800	11040	7920	25670

CAL YR 1979 TOTAL 40576.0 MEAN 111 MAX 653 MIN 2.3 AC-FT 80480
WTR YR 1980 TOTAL 101942.8 MEAN 279 MAX 2200 MIN 2.3 AC-FT 202200

13152500 BIG WOOD RIVER NEAR GOODING, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT
OCT												
15...	1230	23	462	--	9.5	11.5	--	--	--	--	--	--
DEC												
11...	0954	7.3	369	7.5	-4.5	.5	180	16	49	13	5.8	9
JAN												
21...	1248	89	303	--	-4.5	.5	--	--	--	--	--	--
MAR												
27...	1324	66	360	--	-2.0	6.5	--	--	--	--	--	--
MAY												
21...	1330	400	442	8.7	29.0	20.0	170	26	40	16	22	22
JUL												
25...	1330	69	361	--	26.0	24.5	--	--	--	--	--	--
SEP												
17...	1000	577	343	--	16.0	15.5	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT												
15...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
11...	.2	2.0	160	18	3.6	.2	9.2	200	.27	3.94	.58	.580
JAN												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
27...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
21...	.7	4.6	140	41	20	.8	6.8	236	.32	255	.07	.120
JUL												
25...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
17...	--	--	--	--	--	--	--	--	--	--	--	--

13154500 SNAKE RIVER AT KING HILL, ID

LOCATION.--Lat 43°00'08", long 115°12'06", in N½NW¼SW¼ sec.7, T.5 S., R.11 E., Elmore County, Hydrologic Unit 17040212, on right bank 300 ft (90 m) east of railroad station at King Hill, 20 mi (32 km) downstream from Big Wood River, and at mile 546.6 (879.5 km).

DRAINAGE AREA.--35,800 mi^2 (92,700 km^2), approximately. Mean altitude, 6,040 ft (1,841 m).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1909 to current year.

REVISED RECORDS.--WSP 1317: 1935(M). WDR ID-76-1: 1974.

GAGE.--Water-stage recorder. Datum of gage is 2,492.3 ft (759.65 m) National Geodetic Vertical Datum of 1929 (stadia levels). Nonrecording gage May 13, 1909, to Mar. 1, 1910, on left bank at present site at datum 2.20 ft (0.671 m) higher, Mar. 7 to Aug. 16, 1910, 0.8 mi (1.3 m) upstream at different datum, and Aug. 17, 1910, to Oct. 7, 1928, at present site and datum.

REMARKS.--Records good except those for March and April, which are fair. Flow regulated by American Falls Reservoir 168.4 mi (271.0 km) upstream (see sta 13076500). Diurnal fluctuation caused by hydroelectric plants upstream. At times, practically entire flow is diverted at Milner during irrigation seasons; only minor diversions below Milner; flow at King Hill is then derived largely from springs and seepage entering below Milner. Diversions above station for irrigation of about 2,450,000 acres (992,000 hm^2) of which about 675,000 acres (273,000 hm^2) are by withdrawals from ground water (1966 determination).

AVERAGE DISCHARGE.--71 years, 10,750 ft^3/s (304 m^3/s), 7,788,000 acre-ft/yr (9,603 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 47,200 ft^3/s (1,340 m^3/s) June 22, 1918, gage height, 16.3 ft (4.97 m), from rating curve extended above 30,000 ft^3/s (850 m^3/s); minimum observed, 1,250 ft^3/s (35.4 m^3/s) Jan. 10, 1950, gage height, 1.75 ft (0.533 m); minimum daily, 4,760 ft^3/s (135 m^3/s) June 7-9, Aug. 15, 16, 1910.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,900 ft^3/s (818 m^3/s) June 6, gage height, 12.34 ft (3.761 m); minimum, 3,970 ft^3/s (112 m^3/s) Nov. 6, gage height, 4.35 ft (1.325 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)

5.0	5170	10.0	19400
6.0	7320	12.0	27400
8.0	12700		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8500	8530	7790	7580	7390	7800	7100	13000	23300	6640	7090	7870
2	8500	8480	7840	7670	7390	7800	7100	14200	24400	6480	7070	7990
3	8600	8530	7890	7340	7440	7800	7100	13000	25200	6590	7200	7960
4	8700	8550	7820	7620	7410	7900	7100	9000	26300	6750	7180	7980
5	8700	8530	7890	7580	7510	7900	9300	9400	27600	6880	7370	7970
6	8600	8780	7860	7550	7650	7900	11500	9400	28300	7180	7250	7950
7	8500	8400	7820	7580	7250	7900	12000	8400	28600	7040	7230	7920
8	8500	7790	7860	7530	7410	7900	12700	8600	28100	6770	7110	8260
9	8600	8180	7770	7580	7370	7800	13600	9200	27700	6570	7000	8490
10	8600	8130	7790	7720	7340	7800	13600	10000	27000	6460	7020	8490
11	8500	7940	7820	7700	7340	7800	12900	11400	24700	6370	7020	8900
12	8280	7890	7740	7740	7370	7800	12700	14300	20300	6270	7090	9410
13	8200	7960	7650	8480	7250	7800	12700	15500	16500	6240	7200	9420
14	8230	7890	7720	10600	7180	7800	12900	16800	15000	6420	6960	9960
15	8200	7910	7650	10700	7340	8400	12500	18300	14300	6440	6950	9690
16	8400	7910	7700	9710	7460	9000	11300	17700	11800	6530	7050	9590
17	8350	7960	7740	9320	7980	8900	10700	18300	11100	6770	7180	9350
18	8400	7960	7700	8800	9420	8700	9190	16800	12000	6660	7450	9280
19	8680	8030	7700	8380	10100	8500	8280	16300	11100	6700	7930	9230
20	8830	7820	7740	8150	9600	8500	7980	14900	10900	6770	7690	9270
21	8980	7820	7700	8060	9000	8500	7700	15100	9580	6860	7590	9450
22	8800	7910	7670	8030	8300	8500	7530	13200	8900	6790	7590	9420
23	8850	8230	7720	7960	7900	8200	7020	13300	8300	6820	7610	9480
24	8750	8010	7700	7790	7500	8100	7200	13800	7960	6750	7490	9490
25	8730	8030	7650	7700	7300	7900	7460	17400	7480	6680	7590	9290
26	8730	8130	7720	7720	7300	7800	7620	19200	7410	6750	7480	9110
27	8650	7910	7620	7550	7400	7500	7840	21500	7130	6860	7520	8920
28	8650	7840	7620	7480	7600	7500	7890	22300	6820	7070	7480	8860
29	8650	7820	7580	7530	7800	7200	8300	23400	6790	6900	7490	8720
30	8600	7720	7530	7340	---	7000	7700	22200	6750	6950	7590	8650
31	8550	---	7550	7320	---	7100	---	22800	---	7040	7730	---
TOTAL	265810	242590	239550	249810	225300	247000	288510	468700	491320	208000	227200	266370
MEAN	8575	8086	7727	8058	7769	7968	9617	15120	16380	6710	7329	8879
MAX	8980	8780	7890	10700	10100	9000	13600	23400	28600	7180	7930	9960
MIN	8200	7720	7530	7320	7180	7000	7020	8400	6750	6240	6950	7870
AC-FT	527200	481200	475100	495500	446900	489900	572300	929700	974500	412600	450700	528300

CAL YR 1979 TOTAL 3525960 MEAN 9660 MAX 20700 MIN 5800 AC-FT 6994000
WTR YR 1980 TOTAL 3420160 MEAN 9345 MAX 28600 MIN 6240 AC-FT 6784000

13154500 SNAKE RIVER AT KING HILL, ID--Continued
(National stream-quality accounting network station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1951 to September 1980. (Discontinued)
WATER TEMPERATURES: March 1951 to September 1980. (Discontinued)
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 595 micromho/cm June 19, 1968; minimum daily, 296 micromho/cm May 15, 1974.
WATER TEMPERATURES: Maximum daily, 23°C Aug. 2, 1955; minimum daily, 3.0°C Dec. 11, 16, 1972.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 555 micromho/cm Apr. 6; minimum daily, 434 micromho/cm Feb. 20.
WATER TEMPERATURES: Maximum daily, 21.0°C July 24; minimum daily, 6.0°C Jan. 28, 29, 30, 31.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)
OCT 10...	1230	7930	506	8.5	25.0	15.5	5.3	9.4	102	K3	51
NOV 07...	1200	8690	521	8.6	15.0	13.5	1.3	--	--	K13	120
DEC 05...	1200	7460	522	8.4	7.0	8.0	3.4	11.8	109	K7	580
JAN 08...	1245	7830	512	8.5	1.0	9.5	1.5	10.7	102	K3	1200
FEB 13...	1130	7700	511	8.5	4.0	10.5	3.4	12.0	104	K3	58
APR 10...	1430	12800	495	8.6	10.5	11.0	12	10.4	105	K12	220
MAY 12...	1415	14300	493	8.5	21.5	15.5	8.9	9.0	108	K36	100
JUN 11...	1500	23800	436	8.2	31.5	17.5	16	9.0	105	26	27
JUL 15...	1130	6780	495	8.2	32.5	18.5	4.6	10.8	126	K7	37
AUG 13...	1515	7330	505	8.1	37.0	19.5	4.9	10.2	123	K2	K3
SEP 03...	1330	8550	517	8.4	24.5	17.0	6.7	10.1	113	K4	63

DATE	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT 10...	200	27	46	20	30	24	.9	4.9	190	10	172
NOV 07...	190	10	45	20	31	25	1.0	5.1	210	7	184
DEC 05...	200	24	47	21	32	36	1.0	5.4	--	--	180
JAN 08...	190	8	44	19	30	25	1.0	4.8	--	--	180
FEB 13...	210	41	50	21	32	24	1.0	4.7	--	--	170
APR 10...	190	27	45	18	27	23	.9	5.4	--	--	160
MAY 12...	180	22	43	18	26	23	.8	4.7	--	--	--
JUN 11...	170	13	43	16	21	20	.7	3.9	--	--	160
JUL 15...	190	26	43	19	28	24	.9	4.7	--	--	160
AUG 13...	190	28	44	19	28	24	.9	4.9	--	--	160
SEP 03...	190	18	44	19	29	25	.9	4.4	--	--	170

K Results based on counts outside ideal colony count range.

13154500 SNAKE RIVER AT KING HILL, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)
OCT 10...	54	27	.7	34	330	326	.45	7070	1.4	.040	.95
NOV 07...	55	25	.6	35	308	335	.42	7230	1.8	.020	.49
DEC 05...	52	26	.6	36	339	335	.46	6830	1.7	.020	.63
JAN 08...	52	26	.6	34	341	325	.46	7210	1.5	.060	.92
FEB 13...	51	22	.6	33	317	322	.43	6590	1.4	.060	.37
APR 10...	49	28	.8	.5	310	278	.42	10700	.94	.080	1.3
MAY 12...	44	24	.7	25	291	285	.40	11200	.79	.070	1.4
JUN 11...	42	20	.7	17	255	262	.35	16400	.49	.110	.46
JUL 15...	49	25	.8	32	309	303	.42	5660	1.3	.090	.25
AUG 13...	50	24	.7	32	315	306	.43	6210	1.4	--	2.1
SEP 03...	51	27	.6	31	340	314	.46	7850	1.4	.000	.47

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED (MG/L AS C)
OCT 10...	.99	.61	.38	2.4	11	.070	.21	.040	3.6	--	--
NOV 07...	.51	.15	.36	2.3	10	.050	.15	.030	2.9	--	--
DEC 05...	.65	.22	.43	2.4	10	.040	.12	.040	--	4.8	.2
JAN 08...	.98	.20	.78	2.5	11	.090	.28	.070	1.6	--	--
FEB 13...	.43	.25	.18	1.8	8.1	.060	.18	.060	3.9	--	--
APR 10...	1.4	.67	.73	2.3	10	.140	.43	.040	6.4	--	--
MAY 12...	1.5	.91	.59	2.3	10	.110	.34	.050	--	--	--
JUN 11...	.57	.14	.43	1.1	4.7	.050	.15	.030	--	5.8	.4
JUL 15...	.34	.04	.30	1.6	7.3	.060	.18	.040	9.5	--	--
AUG 13...	2.1	.40	1.7	3.5	16	.070	.21	.060	4.3	--	--
SEP 03...	.47	.16	.31	1.9	8.3	.070	.21	.040	--	4.5	.4

13154500 SNAKE RIVER AT KING HILL, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS-PENDED TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, SUS-PENDED RECOV. (UG/L AS CR)
DEC 05...	4	0	4	400	<400	<100	2	1	<1	10	10
JUN 11...	4	1	3	0	0	60	0	--	<1	0	0
SEP 03...	5	1	4	0	0	40	0	0	2	10	10

DATE	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, SUS-PENDED RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
DEC 05...	0	2	0	<3	3	3	0	250	240	10
JUN 11...	0	2	--	<3	6	4	2	850	840	10
SEP 03...	0	0	--	<3	5	3	2	460	--	<10

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)
DEC 05...	30	11	27	30	30	<10	.0	.0	.0
JAN 08...	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	--
JUN 11...	5	5	0	40	40	<10	.0	.0	.0
JUL 15...	--	--	--	--	--	--	--	--	--
SEP 03...	5	5	0	20	20	<10	.0	.0	.0

DATE	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC 05...	1	0	1	0	0	0	50	50	<10
JAN 08...	--	--	--	0	--	--	--	--	--
APR 10...	--	--	--	0	--	--	--	--	--
JUN 11...	0	0	0	1	1	0	20	20	<10
JUL 15...	--	--	--	0	--	--	--	--	--
SEP 03...	1	0	1	0	0	0	30	30	<10

13154500 SNAKE RIVER AT KING HILL, ID--Continued

PHYTOPLANKTON ANALYSES, OCTOBER 1979 TO SEPTEMBER 1980

DATE	NOV 7,79		JUN 11,80		SEP 3,80	
TIME	1200		1500		1330	
TOTAL CELLS/ML	2900		1100		3000	
DIVERSITY: DIVISION	1.3		1.2		1.4	
.CLASS	1.3		1.2		1.4	
..ORDER	1.4		1.9		2.0	
...FAMILY	1.4		2.2		2.1	
....GENUS	2.1		2.8		2.6	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
CHLOROPHYTA (GREEN ALGAE)						
.CHLOROPHYCEAE						
..CHLOROCOCCALES						
...OOCYSTACEAE						
....ANKISTRODESMUS	--	-	--	-	17	1
....OOCYSTIS	--	-	51	5	--	-
....SELENASTRUM	37	1	--	-	17	1
....TREUBARIA	--	-	--	-	17	1
...SCENEDESMACEAE						
....SCENEDESMUS	--	-	--	-	100	3
....TETRASTRUM	150	5	51	5	67	2
..TETRASPORALES						
...COCCOMYXACEAE						
....ELAKATOTHRIX	--	-	--	-	34	1
..VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	--	-	--	-	17	1
CHRYSOPHYTA						
.BACILLARIOPHYCEAE						
..CENTRALES						
...COSCINODISCACEAE						
....CYCLOTELLA	440#	15	260#	23	1300#	42
....MELOSIRA	92	3	140	13	300	10
....STEPHANODISCUS	1200#	40	--	-	--	-
..PENNALES						
...ACHNANTHACEAE						
....ACHNANTHES	--	-	--	-	34	1
....COCCONEIS	--	-	--	-	34	1
...FRAGILARIACEAE						
....ASTERIONELLA	--	-	120	10	--	-
....FRAGILARIA	--	-	240#	22	--	-
...NAVICULACEAE						
....NAVICULA	18	1	--	-	150	5
...NITZSCHIACEAE						
....NITZSCHIA	18	1	39	3	50	2
CRYPTOPHYTA (CRYPTOMONADS)						
.CRYPTOPHYCEAE						
..CRYPTOMONADALES						
...CRYPTOCHRYSIDACEAE						
....CHROOMONAS	--	-	--	-	17	1
...CRYPTOMONADACEAE						
....CRYPTOMONAS	18	1	--	-	--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
.CYANOPHYCEAE						
..CHROOCOCCALES						
...CHROOCOCCACEAE						
....ANACYSTIS	990#	34	210#	18	120	4
..HORMOGONALES						
...OSCILLATORIACEAE						
....OSCILLATORIA	--	-	--	-	770#	26
EUGLENOPHYTA (EUGLENOIDS)						
.EUGLENOPHYCEAE						
..EUGLENALES						
...EUGLENACEAE						
....TRACHELOMONAS	--	-	13	1	--	-
PYRRHOPHYTA (FIRE ALGAE)						
.DINOPHYCEAE						
..PERIDINIALES						
...GLENODINIACEAE						
....GLENODINIUM	--	-	--	-	17	1

NOTE: # - DOMINANT ORGANISM, EQUAL TO OR GREATER THAN 15%
* - OBSERVED ORGANISM, MAY NOT HAVE BEEN COUNTED; LESS THAN 1/2%

13154500 SNAKE RIVER AT KING HILL, ID--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	BIOMASS CHLORO-PHYLL RATIO PERI-PHYTON (UNITS)
SEP 03...	1.26	.866	2.99	.000	132

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 10...	1230	8	171	--
NOV 07...	1200	13	305	--
DEC 05...	1200	9	181	--
JAN 08...	1245	6	127	--
FEB 13...	1130	8	166	--
APR 10...	1430	24	829	97
MAY 12...	1415	25	965	93
JUN 11...	1500	43	2760	95
JUL 15...	1130	10	183	--
AUG 13...	1515	10	198	--
SEP 03...	1330	13	300	--

13154500 SNAKE RIVER AT KING HILL, ID--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	541	535	534	535	519	508	502	479	478	494	504	518
2	543	537	534	537	514	507	500	536	472	500	505	518
3	542	536	535	535	523	509	500	539	462	495	508	515
4	539	533	535	530	524	508	502	488	468	503	506	518
5	543	536	536	528	522	508	501	490	457	496	509	513
6	547	535	537	530	522	510	555	482	449	504	509	515
7	548	533	537	533	523	510	531	481	451	498	510	517
8	547	528	537	532	520	511	530	487	451	493	507	518
9	550	535	537	534	520	511	552	484	452	494	510	519
10	550	536	535	522	524	511	500	493	446	497	512	521
11	549	537	538	533	522	514	507	493	448	507	510	523
12	553	533	536	526	523	513	500	502	453	506	510	520
13	552	534	536	517	527	512	496	502	454	503	509	524
14	552	531	534	477	527	513	501	495	455	504	509	523
15	554	533	534	443	523	510	502	495	459	505	503	524
16	532	530	532	461	514	516	499	485	462	502	505	524
17	533	530	532	480	506	521	494	485	464	502	505	518
18	535	533	534	492	460	529	497	483	481	500	506	517
19	536	535	533	515	441	528	501	479	478	502	514	518
20	535	537	533	529	434	526	495	486	471	503	522	520
21	541	534	532	532	452	523	492	489	480	507	515	518
22	545	535	521	533	474	523	481	487	469	508	512	518
23	541	536	520	533	488	518	467	482	481	511	511	517
24	537	537	531	533	499	520	479	483	463	511	519	518
25	541	534	532	532	494	517	480	485	475	509	517	517
26	543	536	529	536	496	515	481	472	476	510	517	518
27	544	537	528	532	505	510	479	471	479	509	523	515
28	545	538	529	531	505	510	483	473	483	509	519	513
29	542	537	530	529	509	505	483	477	487	509	518	518
30	540	536	530	527	---	502	483	473	488	506	519	515
31	543	---	531	527	---	503	---	472	---	507	520	---
MEAN	543	535	533	520	504	514	499	488	467	503	512	518

WTR YR 1980 MEAN 511 MAX 555 MIN 434

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	11.5	8.0	9.5	7.5	11.5	10.0	15.0	15.0	18.0	20.0	17.0
2	16.0	11.0	8.0	9.5	8.0	11.5	10.0	15.5	14.5	18.5	20.5	17.5
3	16.5	11.0	9.0	9.5	9.0	12.0	10.5	15.5	13.5	18.5	19.5	16.5
4	16.0	11.5	8.5	10.0	9.5	12.5	11.0	16.0	14.0	19.0	18.5	17.0
5	16.5	12.0	9.0	10.5	9.5	12.0	10.5	16.5	14.5	19.5	17.5	17.5
6	16.0	12.0	9.0	10.0	9.5	12.0	10.5	17.0	14.5	20.0	18.5	17.5
7	16.5	12.5	9.5	9.0	---	11.5	11.0	16.5	15.5	19.5	19.0	18.0
8	16.0	12.0	10.0	8.5	10.0	11.5	11.0	16.5	16.0	20.0	19.5	18.0
9	15.5	11.5	10.0	8.0	10.0	12.0	11.5	16.0	16.5	20.0	19.5	17.5
10	15.5	11.0	10.0	7.5	10.5	12.5	10.5	16.0	17.0	20.0	19.0	17.0
11	15.5	11.0	9.0	7.5	10.0	12.0	---	15.5	17.5	20.0	19.0	17.0
12	15.5	11.0	9.0	9.0	10.0	11.0	11.0	15.0	17.0	19.5	19.0	17.5
13	15.0	11.0	9.0	9.0	10.5	11.0	11.5	15.0	16.5	19.5	19.0	17.0
14	15.5	11.0	9.5	9.0	10.5	12.0	12.0	15.0	16.0	18.5	19.0	16.5
15	15.5	11.5	10.0	9.0	11.0	11.5	12.0	15.0	16.5	19.0	18.0	16.0
16	15.0	11.5	10.0	9.0	11.0	10.5	13.0	14.0	17.0	19.0	18.0	17.0
17	14.5	11.0	10.5	9.5	11.5	10.5	13.5	14.0	17.5	19.5	18.0	17.5
18	14.0	10.5	10.0	9.0	10.5	10.0	14.0	14.5	18.0	20.0	17.5	16.5
19	13.5	10.0	10.0	9.0	10.5	11.0	14.5	15.5	18.5	19.5	17.0	16.0
20	13.0	9.5	10.0	8.5	10.5	14.0	15.0	16.0	19.0	20.0	17.5	16.0
21	12.5	9.5	10.0	8.0	9.5	11.5	15.0	17.0	19.5	20.0	17.5	15.0
22	12.5	9.0	9.5	8.5	10.0	11.5	15.0	16.5	20.0	20.0	17.5	14.0
23	13.0	9.5	9.0	8.5	11.0	10.5	15.0	15.5	19.5	20.0	18.0	14.5
24	13.5	9.0	8.5	8.0	11.0	10.5	15.0	15.0	19.5	21.0	18.0	15.0
25	13.0	---	9.0	8.5	11.5	10.5	15.0	14.0	19.5	20.0	18.5	---
26	13.0	8.5	9.5	7.5	11.5	10.5	15.0	13.0	19.0	20.0	18.5	15.5
27	12.5	9.0	9.5	6.5	---	9.5	15.5	13.5	18.0	20.0	19.0	16.0
28	13.0	8.0	9.0	6.0	12.0	10.0	16.0	13.5	18.5	20.0	19.0	16.5
29	12.5	8.0	9.0	6.0	---	9.5	15.0	14.5	18.0	20.0	18.5	16.0
30	11.5	8.0	9.0	6.0	---	9.5	15.0	15.0	---	20.0	17.0	16.0
31	11.0	---	9.0	6.0	---	9.5	---	15.5	---	---	17.0	---
MEAN	14.5	10.5	9.5	8.5	10.0	11.0	13.0	15.5	17.0	19.5	18.5	16.5

WTR YR 1980 MEAN 13.5 MAX 21.0 MIN 6.0

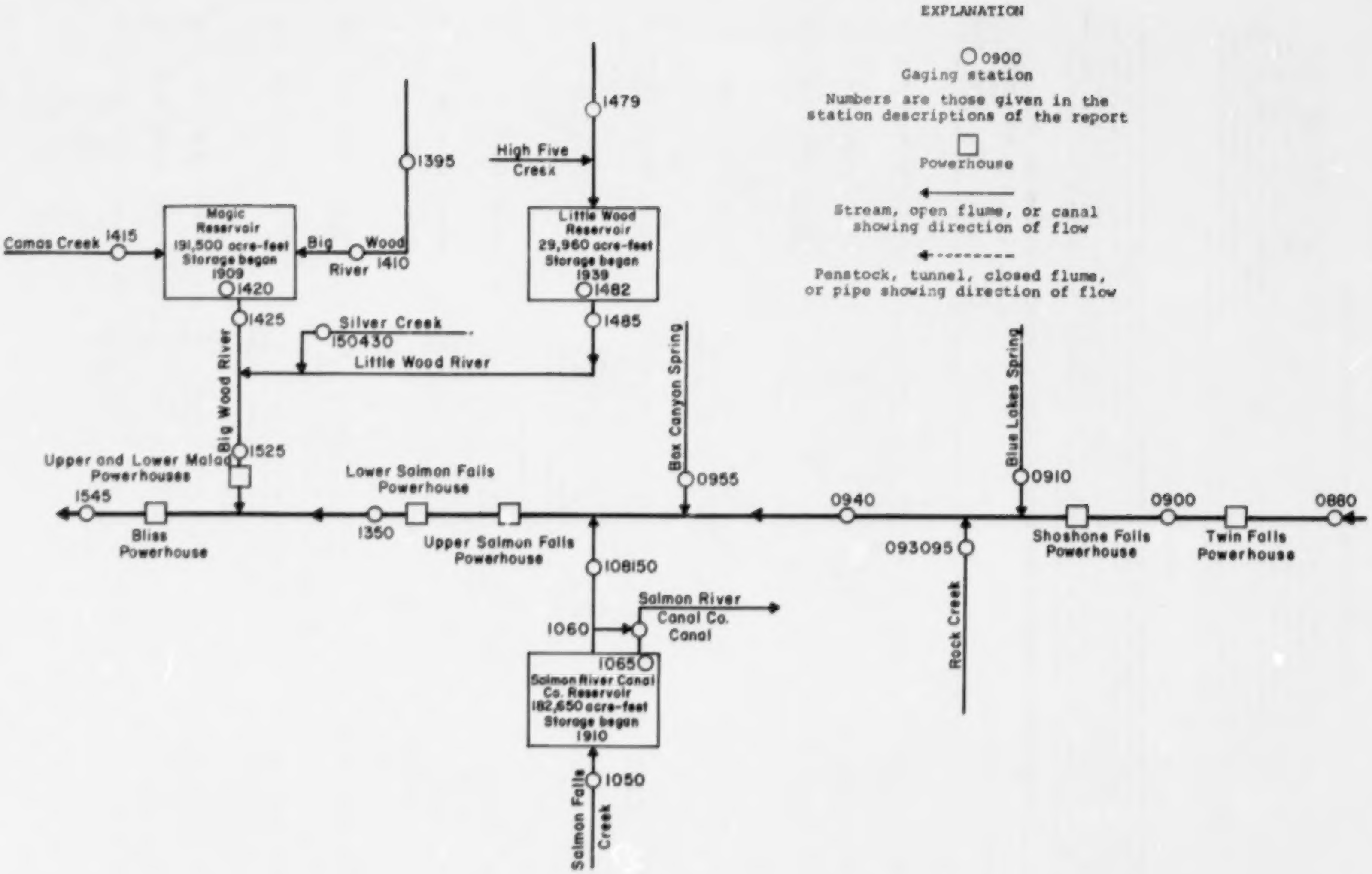
EXPLANATION
0900
Gaging station
Numbers are those given in the station descriptions of the report
Powerhouse
Stream, open flume, or canal showing direction of flow
Penstock, tunnel, closed flume, or pipe showing direction of flow
1479
High Five Creek
Little Wood Reservoir 29,960 acre-feet Storage began 1939
1482
1485
1395
Camas Creek
1415
Magic Reservoir 191,500 acre-feet Storage began 1909
1420
Big Wood River
1410
1425
Silver Creek
150430
Little Wood River
Big Wood River
1525
Upper and Lower Malad Powerhouses
1545
Bliss Powerhouse
1350
Lower Salmon Falls Powerhouse
Upper Salmon Falls Powerhouse
Box Canyon Spring
0955
0940
Blue Lakes Spring
0910
Shoshone Falls Powerhouse
0900
Twin Falls Powerhouse
0880
093095
Rock Creek
108150
Salmon River Canal Co. Canal
1060
1065
Salmon River Canal Co. Reservoir 182,650 acre-feet Storage began 1910
1050
Salmon Falls Creek

FIGURE 10.-- Gaging stations in Snake River basin between Milner and King Hill.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are generally presented in two tables. A table of annual maximum stage and discharge at crest-stage stations is given first, followed by a table of measurements made at miscellaneous sites.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. Measurements made to rate the crest-stage stations are given in the list of miscellaneous measurements. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1980

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Bear River basin					
10090800	Battle Creek tributary near Treasureton	Lat 42°16'40", long 111°48'50", in SW¼ sec.20, T. 13 S., R.40 E., Franklin County, at mile 1.5 (2.4 km), on side road from State Highway 34, and 2 mi (3.2 km) northeast of Treasureton.	44.5	1961-71, 1973-80	8-15-80	14.10	152
10091130	Swan Lake Creek near Swan Lake	Lat 42°20'31", long 111°59'05", in NE¼NW¼ sec.35, T.12 S., R.38 E., Bannock County, at county road crossing and 2.2 mi (3.5 km) north of Swan Lake.	6.35	1973-80	4-27-80	5.76	41
10172970	Rock Creek near Holbrook	Lat 42°14', long 112°44', in NW¼ sec.9, T.14 S., R.32 E., Oneida County, at county road crossing and 6.0 mi (9.7 km) northwest of Holbrook.	44	1962-71, 1973-80	2-19-80	30.79	1,480
		Lyons Creek basin					
13038410	Lyons Creek near Ririe	Lat 43°40'54", long 111°44'50", in NE¼NE¼ sec.16, T.4 N., R.40 E., Madison County, in flood control channel and 0.7 mi (1.1 km) south of Byone.	18.8	1973-80	8-19-80	14.93	418
		Henrys Fork basin					
13038900	Targhee Creek near Macks Inn	Lat 44°38'50", long 111°20'30", in NW¼NE¼ sec.11, T.15 N., R.43 E., Fremont County, at State Highway 87 crossing, 1.5 mi (2.4 km) west of junction of State Highway 87 and U.S. Highway 191, and 10.4 mi (16.7 km) north of Macks Inn.	20.8	1963-80	5-25-80	7.77	148
13054400	Milk Creek near Tetonia	Lat 43°53'00", long 111°20'40", in NE¼ sec.2, T. 6 N., R.43 E., Teton County, at State Highway 33 and 10.5 mi (16.9 km) northwest of Tetonia.	17.9	1962-80	5-25-80	2.21	18
		Snake River basin					
13061100	Snake River tributary near Osgood	Lat 43°23'07", long 112°08'47", 0.2 mi (0.3 km) west of northeast corner sec.30, T.3 N., R.37 E., Bonneville County, 2.2 mi (3.5 km) west of Osgood and 9 mi (14 km) northwest of Idaho Falls.	7.64	1961-80	8-18-80	9.48	41
13062650	Snake River tributary No. 9 near Rockford	Lat 43°13'35", long 112°34'24", in SE¼SE¼ sec.22, T.2 S., R.33 E., Bingham County, at county road crossing and 3.2 mi (5.2 km) northwest of Rockland.	17.6	1973-80	1-12-80	12.49	44
		Blackfoot River basin					
13062700	Angus Creek near Henry	Lat 42°49'43", long 111°20'15", in center of sec. 8, T.7 S., R.44 E., Caribou County, at road crossing, 1.1 mi (1.8 km) northeast of Trail guard station, and 11 mi (18 km) southeast of Henry.	13.9	1964-71, 1974-80	4-27-80	12.89	530
13065950	Blackfoot River tributary near Goshen	Lat 43°15'30", long 112°02'06", in NE¼SW¼ sec.8, T.2 S., R.38 E., Bingham County, at county road crossing and 4.2 mi (6.8 km) southeast of Goshen.	2.79	1973-80	1-12-80	19.31	55
		Portneuf River basin					
13072890	Dempsey Creek near Lava Hot Springs	Lat 42°35'57", long 112°01'12", in SW¼NE¼ sec.33, T.9 S., R.28 E., Bannock County, at road crossing and 1.0 mi (1.6 km) south of Lava Hot Springs.	37.0	1973-80	5-12-80	14.07	112
13075090	Inman Creek near Inkom	Lat 42°49'17", long 112°12'57", in SE¼SW¼ sec.11, T.7 S., R.36 E., Bannock County, at county road crossing and 2.5 mi (4.0 km) northeast of Inkom.	8.20	1973-80	5-12-80	13.48	64
13076125	Bannock Creek tributary, near Pocatello	Lat 42°44'27", long 112°36'46", in SW¼NW¼ sec.9, T.8 S., R.33 E., Power County, at road crossing and 12.5 mi (20 km) north of Pauline.	4.90	1975-80	1-13-80	14.52	40

See footnotes at end of table, p.

Annual maximum discharge at crest-stage partial-record stations during water year 1980

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Raft River basin					
13079800	Heglar Canyon tributary near Rockland	Lat 42°28'25", long 113°08'47", in SE¼SW¼ sec.11, T.11 S., R.28 E., Cassia County, 600 ft (183 m) upstream from Heglar Canyon road crossing and 16 mi (26 km) southwest of Rockland.	7.72	1958, 1962-71, 1973-80	1-14-80	12.64	165
		Goose Creek basin					
13084400	Birch Creek above diversions, near Oakley	Lat 42°10'40", long 113°49'05", in SE¼SW¼NE¼ sec. 25, T.14 S., R.22 E., Cassia County, at county road crossing, 0.3 mi (0.5 km) downstream from North Carson Creek, and 5.3 mi (8.5 km) southeast of Oakley.	33.9	1973-80	1-14-80	12.32	300
		Snake River basin					
13084850	"F" Main Drain near Rupert	Lat 42°42'14", long 113°40'45", in SE¼NE¼NW¼ sec. 29, T.8 S., R.24 E., Minidoka County, at 600 North Road crossing, 1.5 mi (2.4 km) northwest of Rupert Cemetery, and 5.9 mi (9.5 km) north of Rupert.	62.1	1973-80	1-12-80	9.43	240
		Salmon Falls Creek basin					
13106535	Soldier Creek near Rogerson	Lat 42°13'24", long 114°14'48", in SE¼NE¼ sec.7, T.14 S., R.17 E., Twin Falls County, at county road crossing, 100 ft (30 m) upstream from unnamed tributary, and 5 mi (8 km) east of Rogerson.	5.23	1973-80	6- 4-80	11.25	32
		Mud Lake-Lost River basins					
13132555	Big Lost River tributary No. 2 near Idaho Falls	Lat 43°33'02", long 112°37'37", in NW¼NE¼ sec.31, T.3 N., R.33 E., Bingham County, at U.S. Highway 20 crossing, 24.6 mi (39.6 km) southeast of Howe, 28.5 mi (45.9 km) northwest of Blackfoot, and 30.0 mi (48.3 km) west of Idaho Falls.	6.29	1973-80	2-20-80	11.94	72
		Big Wood River basin					
13145700	Schooler Creek near Gooding	Lat 43°11'30", long 114°39'25", in SE¼NE¼ sec.3, T.3 S., R.15 E., Gooding County, at State Highway 46 and 18 mi (29 km) north of Gooding.	2.22	1961-80	2-20-80	3.72	32
		Snake River basin					
13153777	Snake River tributary No. 10 near King Hill	Lat 42°53'34", long 115°08'39", in NW¼NW¼NW¼ sec. 22, T.6 S., R.11 E., Elmore County, at Shoestring crossing, about 0.4 mi (0.6 km) above mouth, and 8.5 mi (13.7 km) southeast of King Hill.	.52	1973-80	—	—	(b)
		Clover Creek basin					
13154000	Clover Creek near Bliss	Lat 43°01'30", long 115°00'20", in SE¼SE¼ sec.34, T.4 S., R.12 E., Gooding County, just downstream from Calf Creek and 6.5 mi (10.5 km) northwest of Bliss.	140	1938-43‡, 1957-62‡, 1963-80	2-20-80	15.35	2,800

‡ Operated as a continuous-record gaging station.
a Approximately.
b No evidence of flow during year.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in a low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both high and low flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1980

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements Date	Measurements Discharge (ft³/s)
		Bear River basin				
10091130	Swan Lake Creek near Swan Lake	Lat 42°20'31", long 111°59'05", in NE¼NW¼ sec.35, T.12 S., R.38 E., Bannock County, at county road crossing and 2.2 mi (3.5 km) north of Swan Lake.	-	1973-78, 1980	10-24-79	0.95
		Tributaries between Great Salt Lake Desert and Bear River				
10172970	Rock Creek near Holbrook	Lat 42°13'51", long 112°43'45", in NW¼ sec.9, T. 14 S., R.32 E., Oneida County, at county road crossing and 6.0 mi (9.7 km) northwest of Holbrook.	a44	1962-71b, 1973-78	9- 8-80	c1.4
		McCoy Creek basin				
13029500	McCoy Creek above reservoir, near Alpine, WY	Lat 43°10'50", long 111°06'55", in SW¼ sec.6, T.3 S., R.46 E., Bonneville County, at mile 1.5 (2.4 km) and 5 mi (8 km) west of Alpine.	108	1917-18‡, 1934‡, 1953-61‡, 1962-71b, 1973, 1975-78, 1980	10- 8-79	14.6
		Indian Creek basin				
13030000	Indian Creek above reservoir, near Alpine, WY	Lat 43°15'35", long 111°04'00", near center of sec.9, T.2 S., R.46 E., Bonneville County, 0.2 mi (0.3 km) downstream from confluence of North and South Forks, 3.0 mi (4.8 km) upstream from mouth, and 5.5 mi (8.8 km) north of Alpine, WY	36.8	1918‡, 1954-61‡, 1962-71b, 1975-78, 1980	10-15-79	1.50
		Elk Creek basin				
13030500	Elk Creek above reservoir, near Irwin	Lat 43°19'25", long 111°06'40", in NW¼ sec.19, T. 1 S., R.46 E., Bonneville County, at mile 2.5 (4.0 km) and 11 mi (18 km) southeast of Irwin.	59.2	1918‡, 1934‡, 1954-61‡, 1962-71b, 1975-78, 1980	10-15-79	43.9
		Bear Creek basin				
13032000	Bear Creek above reservoir, near Irwin	Lat 43°17'00", long 111°13'17", in SE¼SE¼ sec.31, T.1 S., R.45 E., Bonneville County, Caribou National Forest, 0.5 mi (0.8 km) downstream from Elk Creek, 0.2 mi (0.3 km) upstream from maximum flow line of Palisades Reservoir, and 6.4 mi (10.3 km) south of Irwin.	77.1	1917-18‡, 1934-36‡, 1953-71‡, 1973, 1975-78, 1980	10- 8-79	24.4
		Lyons Creek basin				
13038410	Lyons Creek near Ririe	Lat 43°40'54", long 111°44'50", in NE¼NE¼ sec.16, T.4 N., R.40 E., Madison County, in flood-control channel and 0.7 mi (1.1 km) south of Byone.	-	1904, 1962-63, 1973-74b, 1976-78b, 1980	9-25-80	0
		Henrys Fork basin				
13038900	Targhee Creek near Macks Inn	Lat 44°38'50", long 111°20'30", in NW¼NE¼ sec.11, T.15 N., R.43 E., Fremont County, at State Highway 87 crossing, 1.5 mi (2.4 km) west of State Highway 87 and U.S. Highway 191 junction, and 10.4 mi (16.7 km) north of Macks Inn.	20.8	1904,1924, 1929-34, 1962-71b, 1973-78, 1980	10-18-79	5.59
13050800	Moose Creek near Victor	Lat 43°33'48", long 111°04'00", in NE¼ sec.30, T.3 N., R.46 E., Teton County, at old highway bridge, 3.7 mi (6.0 km) southeast of Victor.	21.4	1962-71b, 1975-78, 1980	10-15-79	28.0
		Willow Creek basin				
13057600	Homer Creek near Herman	Lat 43°11'35", long 111°37'20", in NW¼ sec.2, T.3 S., R.41 E., Bingham County, at road crossing, 11 mi (18 km) west of Herman, and 12 mi (19 km) southwest of Bone.	26.4	1963-71b, 1973-78, 1980	10-23-79	.39

See footnotes at end of table, p.

Discharge measurements made at low-flow partial-record stations during water year 1980

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Measurements	
					Date	Discharge (ft³/s)
		Portneuf River basin				
13073700	Robbers Roost Creek near McCammon	Lat 42°42'30", long 112°12'10", in SE¼ sec.23, T. 8 S., R.36 E., Bannock County, at culvert on U.S. Highway 30N, 3.5 mi (5.6 km) north of McCammon, and 6.5 mi (10.5 km) south of Inkom.	a5.7	1961-71b, 1973-78, 1980	10-24-79	0.25
13075300	East Fork Mink Creek near Pocatello	Lat 42°44'20", long 112°23'30", in sec.8, T.8 S., R.35 E., Bannock County, 9 mi (14 km) southeast of Pocatello.	14.7	1912, 1963-71b, 1973-78, 1980	10-25-79	.90
13075600	North Fork Pocatello Creek near Pocatello	Lat 42°53'10", long 112°23'45", in NW¼ sec.20, T. 6 S., R.35 E., Bannock County, 300 ft (91 m) upstream from confluence with South Fork Pocatello Creek, 2 mi (3.2 km) northeast of Idaho State University, and 3.5 mi (5.6 km) east of Pocatello.	14	1961-71b, 1973-78, 1980	10-25-79	.87
		Raft River basin				
13077659	Raft River near Yost, UT	Lat 41°56'50", long 113°42'00", in NE¼NE¼ sec.17, T.14 N., R.16 W., Box Elder County, at road crossing and 8 mi (13 km) west of Yost, UT	146	1965-67, 1973-78, 1980	10- 7-79	3.18
		Goose Creek basin				
13084400	Birch Creek above diversions, near Oakley near	Lat 42°10'40", long 113°49'05", in SE¼SW¼NE¼ sec. 25, T.14 S., R.22 E., Cassia County, at county road crossing, 0.3 mi (0.5 km) downstream from North Carson Creek, and 5.3 mi (8.5 km) southeast of Oakley.	-	1973-78b, 1980	10- 7-79	1.4
		Salmon Falls Creek basin				
13104800	Shoshone Creek at mouth, near San Jacinto	Lat 41°56'36", long 114°41'02", in SE¼ sec.23, T.47 N., R.64 E., Elko County, at mouth and 5 mi (8 km) north of San Jacinto.	-	1909,1914, 1938,1942, 1969-73, 1975-78, 1980	10-12-79	16.9
		Mud Lake-Lost River basins				
13117200	Main Fork near Goldburg	Lat 44°24'06", long 113°24'18", in SW¼NE¼ sec.6, T.12 N., R.26 E., Lemhi County, Challis National Forest, at road crossing, 0.5 mi (0.8 km) upstream from confluence with Timber Creek, and 12 mi (19 km) east of Goldburg.	15.6	1960-71b, 1973-78, 1980	10- 6-79	6.42
13119800	North Fork Big Lost River near Chilly	Lat 43°55'35", long 114°11'00", in NW¼ sec.23, T.7 N., R.19 E. (unsurveyed), Custer County, Challis National Forest, at narrows, 0.5 mi (0.8 km) downstream from Burnt Creek, 4.9 mi (7.9 km) northwest of Wild Horse guard station, and 18.7 mi (30.1 km) southwest of Chilly.	a54.6	1957-59, 1966-68, 1973, 1975-78, 1980	10- 6-79	8.66
13131500	Pass Creek near Leslie	Lat 43°56'05", long 113°26'50", in SW¼ sec.14, T.7 N., R.25 E., on line between Butte and Custer County, Challis National Forest, at road bridge, 0.2 mi (0.3 km) north of forest boundary, 4.8 mi (7.7 km) northwest of Leslie, and 18.3 mi (29.4 km) east of Mackay.	23.6	1920-22‡, 1959, 1973, 1975-78, 1980	10- 6-69	4.51
		Big Wood River basin				
13135200	Prairie Creek near Ketchum	Lat 43°49'00", long 114°35'50", in NW¼ sec.31, T.6 N., R.16 E., Blaine County, Sawtooth National Forest, at U.S. Highway 93 crossing and 15 mi (24 km) northwest of Ketchum.	a18	1962-71b, 1973, 1975-78, 1980	10- 6-79	9.42
13137000	Warm Springs Creek at Guyer Hot Springs, near Ketchum	Lat 43°40'58", long 114°24'24", at west sec. line of NW¼SW¼NW¼ sec.14, T.4 N., R.17 E., Blaine County, Sawtooth National Forest, at road crossing, 2.2 mi (3.5 km) west of U.S. Highway 93 and State Highway 75 junction in Ketchum, and about 2.3 mi (3.7 km) upstream from mouth.	a97	1920-21‡, 1973, 1975-78, 1980	10- 5-79	25.1
13145700	Schooler Creek near Gooding	Lat 43°11'30", long 114°39'25", in SE¼NE¼ sec.3, T.3 S., R.15 E., Gooding County, at State Highway 46 and 18 mi (29 km) north of Gooding.	2.22	1961-79b	10- 5-79	0
		Clover Creek basin				
13154000	Clover Creek near Bliss	Lat 43°01'30", long 115°00'20", in SE¼SE¼ sec.34, T.4 S., R.12 E., Gooding County, just downstream from Calf Creek and 6.5 mi (10.5 km) northwest of Bliss.	140	1938-43‡, 1957-62‡, 1963-74b, 1976-78b, 1980b	10- 5-79	1.99

‡ Operated as continuous-record gaging station.
a Approximately.
b Operated as a crest-gage station.
c Estimated.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Bear River basin				
Formation Springs 10075800	Little Spring Creek	Lat 42°41'42", long 111°32'30", in NW¼SW¼ sec.27, T.8 S., R.42 E., Caribou County, 0.15 mi (0.24 km) downstream from spring head, 0.35 mi (0.56 km) north of Trail Canyon Road, 2.1 mi (3.4 km) south of Conda, and 3.5 mi (5.6 km) northeast of Soda Springs.	--	1923-26, 1944-45, 1975, 1979	10- 3-79	2.4
Battle Creek tributary 10090800	Battle Creek	Operated as a crest-stage station.	4.5	1961-71a, 1973-79a	2- 7-80 3-26-80 5-14-80 9- 9-80	b.60 b1.50 b1.80 b1.40
Swan Lake Creek 10091130	Deep Creek	Operated as a crest-stage station.	--	1973-79a	10-24-79 2- 7-80 5-14-80 9- 9-80	.95 b.90 1.8 1.4
Samaria Lake Canal 10121310	Bear River	Lat 42°01'48", long 112°14'11", in NW¼NE¼ sec.22, T.16 S., R.36 E., Oneida County, 0.3 mi (0.5 km) west of gaging station 10125500 Malad River at Woodruff.	--	1970-75, 1976	10-25-79 12-12-79 1-16-80 2- 7-80 3-26-80 5-13-80 7-15-80 9- 9-80	5.28 0 0 0 0 0 b13 b10
		Tributary between Great Salt Lake Desert and Bear River				
Rock Creek 10172970	Deep Creek	Lat 42°14'00", long 112°44'00", in NW¼ sec.9, T.14 S., R.32 E., Oneida County, at county road crossing and 6.0 mi (9.6 km) northwest of Holbrook.	44	1962-71, 1974-79a	1-16-80 3-27-80 5-13-80 9- 8-80	b.70 b1.8 1.06 b1.4
		Lyons Creek basin				
Lyons Creek 13038410	Snake River	Operated as a crest-stage station.	--	1904, 1962-63, 1973-79a	2-14-80	0
		Henrys Fork basin				
Targhee Creek 13038900	Henrys Lake	Operated as a crest-stage station.	20.8	1904,1924, 1929-34, 1962-71a, 1973-79a	5-21-80 7-17-80	92.2 25.0
Big Springs 13040500	Henrys Fork	Lat 44°29'52", long 111°15'33", in NE¼ sec.33, T.14 N., R.44 E., Fremont County, at site of former gaging station, 0.2 mi (0.3 km) downstream from road bridge, and 0.5 mi (0.8 km) southeast of Big Springs railroad station.	--	1922, 1924-25‡, 1926-28, 1946-50, 1959-65, 1967-69, 1974, 1977-78	10-18-79	182
Conant Creek 13047750	Falls River	Lat 44°01'29", long 111°25'11", in SE¼NE¼NE¼ sec. 18, T.8 N., R.43 E., Fremont County, 3.5 mi (5.6 km) southeast of Ashton.	--	1977	3-27-80 5-23-80 7-25-80	41.7 251 10.1
Bitch Creek 13054300	Teton River	Lat 43°56'17", long 111°10'43", Sec.17, T.7 N., R.45 E., Teton County, 500 ft (152 m) downstream from State Highway 32 crossing, 2.8 mi (4.5 km) southeast of Lamont and 4.6 mi (7.4 km) north of Felt.	80.9	1937,1940, 1974-77‡, 1978	10-11-79	31
Milk Creek 13054400	Teton River	Operated as a crest-stage station.	17.9	1962-79a	2-21-80 4-18-80 6-17-80	0 b.50 0
Rexburg Canal 13055337	Henrys Fork	Lat 43°48'57", long 111°53'12", in SW¼NW¼SE¼ sec. 29, T.6 N., R.39 E., Madison County, 4.5 mi (7.2 km) northwest of Thornton.	--	--	9-19-80	32.2
Texas Slough Canal 13056550	....do.......	Lat 43°48'33", long 111°53'47", in SW¼NW¼NW¼ sec. 32, T.6 N., R.39 E., Madison County, 4.4 mi (7.0 km) northwest of Thornton.	--	--	9-19-80	58.2
Texas Sough 13056590	....do.......	Lat 43°47'55", long 111°53'39", in SE¼SW¼SW¼ sec. 32, T.6 N., R.39 E., Madison County, 3.7 mi (6.0 km) northwest of Thornton.	--	--	3-27-80 5-23-80 7-25-80 9-18-80	19.3 28.8 156 144
Bannock Jim Spring 13056850	....do.......	Lat 43°46'13", long 111°54'59", in NE¼NE¼NW¼ sec. 18, T.5 N., R.39 E., Madison County, 3.6 mi (5.8 km) northwest of Thornton.	--	--	3-27-80 5-22-80 7-25-80 9-18-80	4.52 21.2 14.6 16.6

See footnotes at end of table, p.

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Snake River basin				
Emmigrant Creek 13057041	Snake River	Lat 43°43'55", long 112°03'45", in SE¼SE¼SE¼ sec. 23, T.5 N., R.37 E., Jefferson County, 3.5 mi (5.6 km) northeast of Roberts.	--	--	3-27-80 5-22-80 7-23-80	1.60 2.25 3.94
Butte Market Lake Canal Waste 13057045	.....do.......	Lat 43°39'20", long 112°05'2[illegible]", in SE¼SW¼SE¼ sec. 22, T.4 N., R.37 E., Jefferson County, 4.8 mi (7.7 km) southeast of Roberts.	--	--	9-18-80	46.5
Market Lake Spring 13057050	.....do.......	Lat 43°44'26", long 112°07'30", in NW¼NE¼NE¼ sec. 29, T.5 N., R.37 E., Jefferson County, 1.4 mi (2.3 km) north of Roberts.	--	1925-31, 1937, 1963-67	3-27-80 5-22-80 7-23-80	b2.8 2.5 2.55
Spring Creek 13057090	.....do.......	Lat 43°43'50", long 112°02'30", in NE¼SE¼SE¼ sec. 25, T.5 N., R.37 E., Jefferson County, 2.2 mi (3.6 km) northwest of Menan.	--	--	3-27-80 5-29-80 7-23-80 9-18-80	13.9 96 115 74.9
Snake River tributary 13061100		Operated as a crest-stage station.	7.64	1961-79a	1-16-80 9-16-80	0 0
Snake River 13061500	Columbia River	Lat 43°18'45", long 112°10'57", in SE¼SW¼SE¼ sec. 24, T.1 S., R.36 E., Bingham County, 0.5 mi (0.9 km) northwest of Firth.	--	1914-15‡, 1919, 1924	4-18-80	2,900
Aberdeen-Springfield Canal 13061610	From Snake River	Lat 43°17'37", long 112°13'11", in SW¼NE¼NE¼ sec. 34, T.1 S., R.36 E., Bingham County, 2 mi (3.2 km) southwest of firth.	--	--	7-23-80	1,405
Do.......... 13061615	.....do.......	Lat 43°13'31", long 112°28'31", in NE¼NE¼NE¼ sec. 28, T.2 S., R.34 E., Bingham County, 1.5 mi (2.4 km) west of Moreland.	--	--	5-20-80	624
Do......... 13061620	.....do.......	Lat 43°09'14", long 112°34'25", in SE¼SE¼SE¼ sec. 15, T.3 S., R.33 E., Bingham County, 2.9 mi (4.6 km) northeast of Pingree, where bridge crosses canal.	--	--	5-20-80 7-23-80 9-17-80	567 993 418
Do.......... 13061627	.....do.......	Lat 43°05'10", long 112°43'51", in SE¼NE¼SE¼ sec. 8. T.4 S., R.32 E., Bingham County, 2.5 mi (4.0 km) west of Springfield and 0.4 mi (0.6 km) north on road.	--	--	5-20-80 7-23-80 9-17-80	416 695 350
Snake River tributary No. 6 13062600	Snake River	Lat 43°31'00", long 112°28'00", in NW¼NW¼ sec. 9, T.2 S., R.34 E., Bonneville County, along U.S. Highway 26 and 4 mi (6 km) northwest of Moreland.	63.5	1962,1973, 1977-78	1-28-80 5-14-80 9-11-80	0 27.9 b1.8
		Blackfoot River basin				
Diamond Creek 13062656	Blackfoot River	Lat 42°48'12", long 111°16'43", in NW¼SW¼NE¼ sec. 23, T.7 S., R.44 E., Caribou County, 2.3 mi (3.7 km) upstream from head of Blackfoot River and 13.9 mi (22.4 km) northeast of Conda.	--	1979	10- 3-79	11
Angus Creek 13062695	.....do.......	Lat 42°51'06", long 111°24'40", in SW¼NW¼SW¼ sec. 34, T.6 S., R.43 E., Caribou County, Caribou National Forest, 4.3 mi (6.9 km) upstream from Blackfoot River, and 10.75 mi (17.3 km) northeast of Conda.	--	1979	10- 3-79	.38
Do............ 13062700	.....do.......	Operated as a crest-stage station.	13.9	1962-71a, 1974-79a	5-14-80 9-11-80	27.9 b1.8
Maybe Creek 13062805	Dry Valley Creek	Lat 42°44'47", long 111°18'03", in NE¼NW¼ sec. 14, T.8 S., R.44 E., Caribou County, Caribou National Forest, 3.1 mi (4.99 km) upstream from confluence with Dry Valley Creek and 12.7 mi (20.4 km) east of Conda.	--	1979	10- 3-79	.09
Dry Valley Creek 13062855	Blackfoot River	Lat 42°47'03", long 111°23'10", in SW¼NW¼SW¼ sec. 25, T.7 S. R.43 E., Caribou County, 0.15 mi (0.24 km) upstream from confluence with Blackfoot River and 8.6 mi (13.8 km) northeast of Conda.	--	1979	10- 3-79	.66
Blackfoot River 13062857	Snake River	Lat 42°47'04", long 111°23'13", in SW¼NW¼SW¼ sec. 25, T.7 S. R.43 E., Caribou County, 0.05 mi (0.08 km) downstream from Dry Valley Creek, 2.05 mi (3.3 km) upstream from Slug Creek, and 8.4 mi (13.5 km) northeast of Conda.	--	1979	10- 3-79	47
Trail Creek 13062960	Blackfoot River	Lat 42°45'30", long 111°26'47", in SW¼SW¼NW¼ sec. 4, T.8 S., R.43 E., Caribou County, 0.5 mi (0.8 km) upstream from unnamed tributary, 1.15 mi (1.85 km) upstream from mouth, and 4.8 mi (7.7 km) northeast of Conda.	--	1977, 1979	10- 2-79	3.1
Little Blackfoot River 13063405	.....do.......	Lat 42°53'49", long 111°29'37", in NE¼SE¼ sec. 14, T.6 S., R.42 E., Caribou County, 1.95 mi (3.1 km) upstream from Gray Road bridge at Henry, and 11.8 mi (19.0 km) north of Conda.	--	1979	10- 2-79	3.2
Blackfoot River tributary 13065950	.....do.......	Operated as a crest-stage station.	--	1973-79a	1-14-80 3- 6-80 4-29-80 6-19-80	0 0 0 0

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		Snake River basin				
Johannes's Spring (A&B) 13069505	Snake River	Lat 43°06'04", long 112°32'18", in SE¼ sec. 1, T.4 S., R.33 E., Bingham County, on right bank of Snake River, 3 mi (4.8 km) east and 1 mi (1.6 km) south of Pingree.	--	1977	3-26-80 7-22-80 9-17-80	23.6 25.3 29.1
Thorn Spring (C) 13069507	.....do.......	Lat 43°05'00", long 112°33'13", in SE¼ sec.11, T.4 S., R.33 E., Bingham County, 2.5 mi (4.0 km) south and 2 mi (3.2 km) east of Pingree.	--	1977	3-26-80 5-20-80 7-22-80 9-17-80	11.2 15.6 10.4 14.2
Log Cabin (D) 13069509	.....do.......	Lat 43°03'43", long 112°34'31", in NE¼ sec.22, T.4 S., R.33 E., 4 mi (6.4 km) south of Pingree.	--	1977	7-22-80 9-17-80	57.3 29.8
Pyle Springs 13069511	.....do.......	Lat 43°03'42", long 112°34'32", in NE¼ sec.32, T.4 S., R.33 E., Bingham County, 6 mi (9.6 km) south of Pingree.	--	1926-29, 1932-77	3-26-80 5-20-80 7-22-80 9-17-80	6.0 13.6 4.59 6.75
McTucker Springs 13069515	.....do.......	Lat 43°02'03", long 112°37'33", in NW¼ sec.32, T.4 S., R.33 E., Bingham County, 6 mi (9.6 km) south of Pingree.	--	1926-29, 1932-77	3-26-80 5-20-80 7-22-80 9-17-80	18.2 44.7 23.0 14.1
Hull Springs 13069520	.....do.......	Lat 43°02'49", long 112°39'39", in NE¼ sec.25, T.4 S., R.32 E., Bingham County, 2.5 mi (4.0 km) southeast of Springfield.	--	1926-29, 1932-67, 1971-72, 1974-78	3-26-80 5-20-80 7-22-80 9-17-80	9.44 10.8 7.02 10.3
Tanner Springs 13069524	.....do.......	Lat 43°02'49", long 112°39'30", in NE¼SW¼NE¼ sec. 25, T.4 S., R.32 E., Bingham County, 2.6 mi (4.2 km) southeast of Springfield.	--	--	3-26-80 5-20-80 7-22-80 9-17-80	b3.0 1.78 1.62 2.16
Crystal Ditch 13069529	.....do.......	Lat 43°02'50", long 112°40'00", in NE¼SW¼NW¼ sec. 25, T.4 S., R.32 E., Bingham County, 2.45 mi (3.9 km) southeast of Springfield.	--	--	3-26-80 5-20-80 7-22-80 9-17-80	0 0 0 0
Crystal Waste 13069532	.....do.......	Lat 42°02'52", long 112°40'49", in NW¼SW¼NE¼ sec. 26, T.4 S., R.32 E., Bingham County, 2.3 mi (3.7 km) south of Springfield.	--	--	3-26-80 5-20-80 7-23-80 9-17-80	38.3 39.5 b15.0 58.3
Artesian Springs 13069543	.....do.......	Lat 43°03'38", long 112°43'15", in SW¼SW¼NE¼ sec. 21, T.4 S., R.32 E., Bingham County, 1.7 mi (2.7 km) northeast of Sterling.	--	--	3-26-80 5-20-80 7-23-80 9-18-80	2.78 3.60 1.40 2.05
Sterling Waste 13069548	.....do.......	Lat 43°01'49", long 112°43'36", in NE¼NW¼SW¼ sec. 33, T.4 S., R.32 E., Bingham County, 0.5 mi (0.9 km) southeast of Sterling.	--	--	3-26-80 5-20-80 7-23-80 9-18-80	17.6 7.5 10.3 29.0
Colburn Waste 13069552	.....do.......	Lat 43°01'03", long 112°45'00", in SW¼SW¼NW¼ sec. 5, T.5 S., R.32 E., Bingham County, 1.7 mi (2.8 km) southwest of Sterling.	--	--	3-27-80 5-20-80 7-23-80 9-18-80	5.30 4.40 3.12 10.9
Aberdeen Wasteway 13069565	.....do.......	Lat 42°55'27", long 112°48'38", in SE¼SE¼ sec. 3, T.6 S., R.31 E., Bingham County, 1.5 mi (2.4 km) southeast of Aberdeen.	--	1970-75	3-27-80 5-20-80 7-23-80 9-18-80	2.44 58.4 31.4 76.2
		Portneuf River basin				
Dempsey Creek 13072890	Portneuf River	Operated as a crest-stage station.	42	1973-79a	2- 5-80 3-24-80 5-16-80 9-11-80	b5.9 b5.8 36.1 b7.8
Portneuf-Marsh Valley Canal 13073120	Diverted From Portneuf River	Lat 42°36'53", long 112°09'56", in SW¼NE¼NE¼ sec. 30, T.9 S., R.37 E., Bannock County, at Raymond Road crossing and 2.5 mi (4.02 km) south of McCammon.	--	--	6- 4-80 6-25-80 7-14-80 8-12-80 9-19-80	38.6 127 143 134 85.9
Left Hand Fork Marsh Creek 13073730	Marsh Creek	Lat 42°24'15", long 112°01'33", in NE¼SW¼SW¼ sec. 4, T.12 S., R.38 E., Bannock County, at road crossing, 250 ft (76.2 m) upstream from confluence of Right Hand Fork Marsh Creek.	13.2	--	4-16-80 7-12-80	7.98 4.04
Right Hand Fork Marsh Creek 13073735	.....do.......	Lat 42°24'12", long 112°01'34", in NE¼SW¼SW¼ sec. 4, T.12 S., R.38 E., Bannock County, at mouth 200 ft (61 m) downstream from road crossing Left Hand Fork Marsh Creek.	7.11	--	4-16-80 7-12-80	9.35 2.00
Marsh Creek 13073743	Portneuf River	Lat 42°21'23", long 112°02'36", in NW¼NE¼NW¼ sec. 29, T.12 S., R.38 E., Bannock County, at Calvin Road crossing and 6.5 mi (10.5 km) southeast of Downey.	27.0	--	10-30-79 12-17-79 4-16-80 6- 3-80 6-24-80 7-12-80 8-11-80	1.77 1.82 21.3 25.4 14.1 .94 4.48

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Portneuf River basin--Continued				
Downata Hot Spring 13073745	Marsh Creek	Lat 42°32'36", long 112°05'35", in NW¼NE¼SW¼ sec. 11, T.12 S., R.37 E., Bannock County, at mouth 2.2 mi (3.5 km) southeast of Downey.	--	--	7-12-80	.91
Downata Springs 13073746	.....do.......	Lat 42°23'50", long 112°35'06", in NW¼SE¼NE¼ sec. 11, T.12 S., R.37 E., Bannock County, at mouth 2.0 mi (3.2 km) southeast of Downey.	--	--	7-12-80	3.10
Marsh Creek 13073750	Portneuf River	Lat 42°24'27", long 112°09'20", in NE¼NW¼SE¼ sec. 5, T.12 S., R.37 E., Bannock County, at Highway 191 crossing and 2.1 mi (3.4 km) southwest of Downey.	75.4	--	10-30-79	8.65
					12-17-79	9.64
					1-16-80	88.2
					2-13-80	12.4
					2-21-80	83.6
					4-16-80	24.8
					6- 2-80	50.0
					6-24-80	21.1
					7-13-80	8.90
					8-11-80	5.40
					9-18-80	14.6
Birch Creek 13074779	.....do.......	Lat 42°24'59", long 112°12'23", on line between sec.36, T.11 S., R.36 E., and sec.1, T.12 S., R.36 E., Bannock County, at Marsh Valley Road crossing.	--	--	2-21-80	11.8
					4-19-80	15.4
					7-13-80	3.14
Marsh Creek 13074810	.....do........	Lat 42°30'20", long 112°09'00", in NE¼SE¼SE¼ sec. 36, T.10 S., R.36 E., Bannock County, at Virginia Road crossing 1.7 mi (2.7 km) northwest of Virginia.	179	--	10-31-79	14.3
					12-17-79	15.4
					1-15-80	320
					2-13-80	30.1
					2-21-80	198
					4-17-80	42.4
					6- 3-80	103
					6-24-80	52.6
					7-13-80	13.5
					9-18-80	21.0
Peck Creek 13074814	Marsh Creek	Lat 42°30'18", long 112°08'27", in SW¼SE¼SW¼ sec. 31, T.10 S., R.37 E., Bannock County.	--	--	4-19-80	8.28
					7-13-80	3.49
Hawkins Creek 13074820	.....do........	Lat 42°30'37", long 112°13'33", in NE¼NW¼SW¼ sec. 35, T.10 S., R.36 E., Bannock County, at Virginia Road crossing near Virginia.	51.4	--	2-21-80	46.9
					4-17-80	15.2
Marsh Creek 13074900	Portneuf River	Lat 42°32'25", long 112°10'39", in SW¼SW¼NW¼ sec. 19, T.10 S., R.37 E., Bannock County, at Marsh Valley Road crossing.	--	--	7-14-80	23.5
Garden Creek 13074950	Marsh Creek	Lat 42°34'34", long 112°13'25", on line between secs. 2 and 11, T.10 S., R.36 E., Bannock County, at Glover Road crossing.	29.2	--	2-20-80	83.1
					4-17-80	17.5
Marsh Creek 13074980	Portneuf River	Lat 42°36'36", long 112°13'50", in NW¼NW¼SE¼ sec. 27, T.9 S., R.36 E., Bannock County, at Jensen Road crossing.	332	--	1-15-80	725
Goodenough Creek 13075003	Marsh Creek	Lat 42°38'36", long 112°13'49", in NW¼SW¼SE¼ sec. 15, T.9 S., R.36 E., Bannock County.	9.15	--	2-20-80	20.4
					4-19-80	9.82
Marsh Creek 13075010	.....do.......	Lat 42°39'42", long 112°13'39", in SW¼SE¼SE¼ sec. 3, T.9 S., R.36 E., Bannock County, at Merrill Road crossing near McCammon.	367	--	1-15-80	776
Bell Marsh Creek 13075020	.....do.......	Lat 42°41'15", long 112°13'44", in NE¼NW¼NE¼ sec. 34, T.8 S., R.36 E., Bannock County, at Marsh Valley Road crossing near McCammon.	7.10	--	4-19-80	10.3
Walker Creek 13075035	.....do.......	Lat 42°43'26", long 112°14'16", in NW¼NE¼SW¼ sec. 15, T.8 S., R.36 E., Bannock County, at mouth 5.5 mi (8.8 km) southeast of Inkom.	9.15	--	4-19-80	7.47
Marsh Creek 13075050	Portneuf River	Lat 42°46'00", long 112°13'54", in SW¼NW¼SE¼ sec. 34, T.7 S., R.36 E., Bannock County, at farm bridge 2.5 mi (4.0 km) southeast of Inkom.	412	--	10-31-79	87.4
					12-18-79	79.6
					2-14-80	109
					4-17-80	141
					6- 2-80	329
					6-25-80	129
					7-12-80	89.0
					8-12-80	54.6
					9-19-80	102
Inman Creek 13075090	Rapid River	Operated as a crest-stage station.	--	1973-79a	1-15-80	b3.5
					3-24-80	3.2
					5-15-80	40.5
					9-12-80	b4.0
Bannock Creek tributary 13076125	Bannock Creek	Operated as a crest-stage station.	--	1973-79a	9-25-80	0
		Snake River basin				
Tarter Waste 13076210	Snake River	Lat 42°52'30", long 112°51'09", in NW¼SE¼NE¼ sec. 29, T.6 S., R.31 E., Bingham County, 4.8 mi (7.7 km) southwest of Aberdeen.	--	--	3-27-80	b5.0
					5-21-80	9.4
					7-23-80	10.5
					9-18-80	10.9
Schiltz Creek 13076215	.....do.......	Lat 42°51'15", long 112°51'50", in NW¼NE¼SW¼ sec. 32, T.6 S., R.31 E., Power County, 6.3 mi (10.1 km) southwest of Aberdeen.	--	--	3-26-80	0
					5-21-80	5.64
					7-23-80	9.62
					9-18-80	6.29

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		Snake River basin--Continued				
Cedar Creek 13076310	Snake River	Lat 42°48'50", long 112°54'12", in SW¼SW¼NE¼ sec. 13, T.7 S., R.30 E., Power County, 3.3 mi (5.3 km) northwest of American Falls.	--	--	3-27-80	0
					5-21-80	.80
					7-23-80	.72
					9-18-80	.94
Ruegar Springs 13076600	.....do.......	Lat 42°46'00", long 112°52'55", in SW¼ sec.31, T.8 S., R.31 E., Power County, at fish hatchery, and 0.9 mi (1.4 km) downstream from American Falls Dam.	--	1927-29, 1932-53, 1961-75, 1977-78	3-27-80	19.9
					5-21-80	21.3
					7-23-80	18.0
					9-18-80	21.5
		Rock Creek basin				
South Fork Rock Creek 13077088	Rock Creek	Lat 42°18'12", long 112°49'48", in SE¼NE¼SE¼ sec. 9, T.13 S., R.31 E., Power County, below Kurtz Spring about 4.5 mi (7.2 km) south of Roy.	5.92	1979	10-14-79	0
					11-14-79	0
					12-12-79	0
					1-16-80	.14
Do.......... 13077090	Rock Creek	Lat 42°18'39", long 112°49'31", in SE¼NW¼NW¼ sec. 10, T.13 S., R.31 E., Power County, just downstream from Holloway Canyon and about 4 mi (6.4 km) south of Roy.	12.5	1979	10-14-79	.07
					11-14-79	.06
					12-12-79	0
					1-16-80	1.1
Trail Creek 13077100	.....do.......	Lat 42°21'52", long 112°49'48", in SE¼SE¼NE¼ sec. 21, T.12 S., R.31 E., Power County, at State Highway 37 bridge at Roy.	10.0	1961, 1979	10-14-79	0
					11-14-79	0
					12-12-79	0
					1-15-80	22
South Fork Rock Creek 13077200	.....do........	Lat 42°30'06", long 112°50'28", in SE¼SW¼SW¼, sec. 3, T.12 S., R.31 E., Power County, at State Highway 37 bridge 2.6 mi (4.1 km) north of Roy.	77.3	1962-63, 1979	10-14-79	0
					11-14-79	0
					12-12-79	0
					1-15-80	161
Portage Canyon Creek 13077370	.....do.......	Lat 42°28'44", long 112°48'06", in NE¼NE¼SW¼ sec. 11, T.11 S., R.31 E., Power County, at culvert 2.0 mi (3.2 km) on Portage Canyon Road and about 8.0 mi (12.9 km) southeast of Rockland.	6.9	1979	10-14-79	.16
					11-14-79	.16
					12-11-79	.14
					1-16-80	.09
South Fork Rock Creek 13077390	.....do.......	Lat 42°30'07", long 112°50'28", in NE¼NE¼NW¼ sec. 4, T.11 S., R.31 E., Power County, at concrete bridge 0.2 mi (0.3 km) west of State Highway 37 and 5.5 mi (8.8 km) south of Rockland.	182.03	1979	10-15-79	2.5
					11-13-79	6.0
					12-11-79	8.6
					1-15-80	68
Sand Hollow Creek 13077480	.....do.......	Lat 42°32'09", long 112°49'14", in SE¼NE¼SW¼ sec. 22, T.10 S., R.31 E., Power County, at culvert 1.6 mi (2.6 km) on Sand Hollow Road and about 4.2 mi (6.8 km) southeast of Rockland.	1.48	1979	10-15-79	.10
					11-14-79	.19
					12-11-79	0
					1-16-80	.72
Sand Hollow Creek 13077490	.....do.......	Lat 42°31'29", long 112°50'59", in SE¼SE¼NE¼ sec. 29, T.10 S., R.31 E., Power County, at State Highway 37 bridge 3.5 mi (5.6 km) south of Rockland.	12.3	1979	10-15-79	0
					11-14-79	0
					12-11-79	0
					1-16-80	1.8
Warm Springs Creek 13077540	.....do.......	Lat 42°32'43", long 112°53'58", in SW¼SE¼SW¼ sec. 13, T.10 S., R.30 E., Power County, at bridge 2.4 mi (3.9 km) on Warm Springs Road and 2.0 mi (3.2 km) southwest of Rockland.	--	1979	10-15-79	0
					11-14-79	0
					12-12-79	0
					1-16-80	.08
Spring Creek 13077632	.....do.......	Lat 42°35'59", long 112°51'47", in SE¼NW¼NW¼ sec. 32, T.9 S., R.31 E., Power County, at culvert on Spring Creek Road, 0.9 mi (1.4 km) from State Highway 37, and about 2.1 mi (3.4 km) northeast of Rockland.	7.81	1979	10-15-79	1.1
					11-14-79	1.4
					12-15-79	1.4
					1-16-80	1.8
Rock Creek 13077646	Snake River	Lat 42°38'35", long 112°56'10", in SE¼NE¼NW¼ sec. 15, T.9 S., R.30 E., Power County, about 5.1 mi (8.2 km) upstream from mouth near Rockland.	309.38	1979	10-14-79	6.7
					11-13-79	26
					12-11-79	32
					1-15-80	228
		Raft River basin				
Heglar Canyon tributary 13079800	Snake River	Operated as a crest-stage station.	7.72	1958, 1961-71a, 1973-79a	1-17-80	0
					5-22-80	0
					9-16-80	0
		Snake River basin				
F Waste Drain 13082060	Snake River	Lat 42°32'49", long 113°37'39", in SE¼SE¼SE¼ sec. 15, T.10 S., R.24 E., Cassia County, 2.5 mi (4.0 km) east of Declo.	--	--	5-22-80	91.3
					7-22-80	24.4
					9-16-80	356
		Marsh Creek basin				
Marsh Creek 13082320	Snake River	Lat 42°31'26", long 113°37'39", in NW¼NW¼SW¼ sec. 28, T.10 S., R.24 E., Cassia County 2 mi (3.2 km) west and 0.4 mi (0.64 km) north of Declo.	--	--	3-26-80	b10
					5-22-80	33.1
					7-22-80	28.4
					9-16-80	5.06
		Spring Creek basin				
Spring Creek 13082330	Snake River	Lat 42°30'58", long 113°40'49", in SW¼NE¼NW¼ sec. 32, T.10 S., R.24 E., Cassia County, 2.75 mi (4.4 km) west of Declo at Highway 30 crossing.	--	--	3-26-80	6.48
					5-22-80	5.74
					7-22-80	b3
					9-16-80	10.3
		Duck Creek basin				
Duck Creek 13082340	Snake River	Lat 42°30'59", long 113°41'50", in SE¼NE¼NW¼ sec. 31, T.10 S., R.24 E., Cassia County, 3.1 mi (5.0 km) west of Declo at Highway 30 crossing.	--	--	3-26-80	b3.0
					5-22-80	8.37
					7-22-80	1.10
					9-16-80	b2.0

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Goose Creek basin				
Birch Creek 13084400	Goose Creek	Operated as a crest-stage station.	—	1912-13, 1973-79a	9-12-80	3.28
Goose Creek 13084700	Snake River	Lat 42°30'10", long 113°46'03", in NW¼SE¼SE¼ sec. 21, T.10 S., R.23 E., Cassia County, at Highway 30 crossing.	—	—	5-22-80 7-22-80 9-16-80	.52 8.94 13.2
		Snake River basin				
Milner Gooding Canal 13086615	Diverted From Snake River	Lat 42°40'23", long 114°08'07", in NE¼SW¼NE¼ sec. 5, T.9 S., R.20 E., Jerome County, at road crossing 5 mi (8.0 km) north of Hazelton.	—	—	5-21-80 7-24-80 9-18-80	1,170 1,250 1,020
Do.......... 13086620	.....do.......	Lat 42°45'07", long 114°13'45", in SW¼SW¼SW¼ sec. 3, T.8 S., R.19 E., Jerome County, at road crossing 7 mi (11.3 km) north of Hunt.	—	—	5-21-80 7-24-80 9-18-80	1,110 1,190 991
Do.......... 13086630	.....do.......	Lat 42°54'57", long 114°21'12", on line between secs. 7 and 8, T.6 S., R.18 E., Lincoln County, at road crossing 2.5 mi (4.0 km) southeast of Shoshone.	—	—	7-24-80 9-18-80	1,050 905
Twin Falls Main Canal 13088020	.....do.......	Lat 42°31'08", long 114°16'31", in SE¼SW¼SE¼ sec. 30, T.10 S., R.19 E., Twin Falls County, at 3600 North Road crossing and 1.5 mi (2.4 km) southeast of Hansen.	—	—	11-12-79 4-20-80 5-13-80 6-26-80 7-10-80 8-13-80 9-17-80	634 1,940 3,510 3,540 4,080 3,870 2,160
		Tributaries between Snake River at Milner and Salmon Falls Creek				
Devils Washbowl Spring 13089500	Snake River	Lat 42°35'00", long 114°21'00", in SE¼ sec.4, T.10 S., R.18 E., Jerome County, 400 ft (121.9 m) downstream from Devils Washbowl Spring, 0.5 mi (0.8 km) upstream from Twin Falls and 3.5 mi (5.6 km) north of Kimberly.	—	1950-59‡	5-22-80 7-21-80	12 16.4
Do.......... 13089600	.....do.......	Lat 42°35'18", long 114°20'45", in NE¼NE¼ sec.4, T.10 S., R.18 E., Jerome County, at old abandoned powerplant, about 0.2 mi (0.3 km) upstream from mouth on right bank of Snake River, 0.5 mi (0.8 km) upstream from Twin Falls, and 3.5 mi (5.6 km) north of Kimberly.	—	1902,1917, 1923-24, 1950-59, 1963-79	3-26-80 6-27-80 7-21-80 9-17-80	13.7 20.0 21.8 24.9
Devils Corral Spring (upper outlet) 13090100	.....do.......	Lat 42°35'38", long 114"21'55", in SE¼SE¼ sec.32, T.9 S., R.18 E., Jerome County, 100 ft (30 m) above point where flow cascades into right bank of Snake River at mile 617.1 (992.9 km), about 2 mi (3.2 km) upstream from Shoshone Falls and powerplant, and 4 mi (6.4 km) north of Kimberly.	—	1902, 1923-24, 1939, 1950-59, 1963-79	3-29-80	46.2
Devils Corral Spring (lower outlet) 13090100	.....do.......	Lat 42°36'01", long 114°22'30", in SE¼NW¼ sec.32, T.9 S., R.18 E., Jerome County, 0.1 mi (0.2 km) upstream from mouth on right bank of Snake River, 0.7 mi (1.1 km) northwest of upper outlet, and 4.5 mi (7.2 km) north of Kimberly.	—	1902,1923, 1950-59, 1963-79	3-27-80	7.17
Unnamed Spring No. 2 13090350	.....do.......	Lat 42°35'52", long 114°23'55", in NW¼SW¼ sec.31, T.9 S., R.18 E., Jerome County, on right bank of Snake River just above Shoshone Falls and 4 mi (6.4 km) northeast of Twin Falls.	—	1950-59, 1963-79	3-27-80	4.83
Perrine Waste No. 1 13090360	.....do.......	Lat 42°35'33", long 114°25'59", in SW¼SE¼SW¼ sec. 35, T.9 S., R.17 E., Twin Falls County, 1 mi (1.6 km) upstream from Perrine bridge, and 3.5 mi (5.6 km) northeast of Twin Falls.	—	1958-59	5-22-80 7-22-80 9-16-80	b120 51.2 68.3
Waste Flow 13090380	.....do.......	Lat 42°35'31", long 114°26'22", in SW¼SW¼SW¼ sec. 35, T.9 S., R.17 E., Twin Falls County, 1 mi (1.6 km) upstream from Perrine bridge and 3.5 mi (6.7 km) northeast of Twin Falls.	—	1958-59	5-22-80 7-22-80 9-16-80	b9.0 4.3 7.75
Perrine Coulee 13090460	.....do.......	Lat 42°35'30", long 114°28'10", in NE¼NW¼ sec.4, T.10 S., R.17 E., Twin Falls County, 0.8 mi (1.3 km) upstream from mouth, and 2.5 mi (4.0 km) north of Twin Falls.	—	1958-59	5-22-80 7-22-80 9-15-80	13.8 8.76 6.33
Blue Lakes Spring Outlet 13091500	.....do.......	Lat 42°36'30", long 114°28'34", in SW¼SW¼ sec.28, T.9 S., R.17 E., Jerome County, at point of entry to right bank of Snake River, 4 mi (6.4 km) north of Twin Falls, and at mile 610.3 (981.9 km).	—	1902, 1913-14, 1917-20‡, 1921-47, 1950-59, 1963-71, 1973-79	3-26-80	200
Warm Creek 13091700	.....do.......	Lat 42°37'15", long 114°29'55", in NW¼NW¼ sec.29, T.9 S., R.17 E., Jerome County, 0.6 mi (0.9 km) upstream from point of entry to right bank of Snake River, 1.5 mi (2.4 km) northwest of Blue Lakes Spring Outlet, and 4.6 mi (7.4 km) northwest of Twin Falls.	—	1903,1917, 1931, 1950-59, 1963-71, 1973-79	3-26-80	9.0

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
Tributaries between Snake River at Milner and Salmon Falls Creek--Continued						
Golf Course Drain 13091730	Snake River	Lat 42°38'13", long 114°30'12", in NE¼NE¼NE¼ sec. 19, T.9 S., R.17 E., 5.5 mi (8.8 km) south of Jerome and at Highway 93 crossing.	--	--	5-23-80 7-22-80 9-16-80	15.5 7.98 30.7
Rock Creek basin						
Rock Creek 13092000	Snake River	Lat 42°21'17", long 114°18'15", in NE¼SW¼NE¼ sec. 25, T.12 S., R.18 E., Twin Falls County, at county road crossing 5 mi (8.0 km) south of Rock Creek settlement and 12 mi (19.3 km) south of Hansen.	90	1909-13, 1938-39, 1943-74‡	11- 1-79 12-18-79 2-11-80 4-22-80 5-14-80 6-26-80 7- 9-80 8-14-80 9-17-80	10.4 12.6 13.3 203 142 46.3 23.0 12.0 11.2
Rock Creek Diversion 13092048	Diverted From Rock Creek	Lat 42°25'12", long 114°17'45", in NE¼SE¼NW¼ sec. 36, T.11 S. R.18 E., Twin Falls County, at road crossing, 0.8 mi (1.3 km) southeast of Rock Creek.	--	--	7- 9-80	18.2
Rock Creek 13092050	Snake River	Lat 42°25'36", long 114°17'43", in NE¼SE¼NW¼ sec. 36, T.11 S., R.18 E., Twin Falls County, at road crossing, 0.5 mi (0.8 km) southeast of Rock Creek.	--	--	5-14-80 7-19-80	91.3 7.13
Rock Creek Diversion 13092080	Diverted From Rock Creek	Lat 42°27'10", long 114°18'38", in NE¼NW¼SE¼ sec. 23, T.11 S., R.18 E., Twin Falls County, at private road crossing, 1.3 mi (2.1 km) northwest of Rock Creek.	--	--	5-14-80 7- 9-80	12.2 7.81
Rock Creek 13092095	Snake River	Lat 42°27'21", long 114°20'36", on line between secs. 21 and 22, T.11 S., R.18 E., Twin Falls County, 2.5 mi (4 km) northwest of Rock Creek.	--	--	5-14-80 7- 9-80	80.8 5.2
Do.......... 13092105	.....do.......	Lat 42°27'17", long 114°21'52", in SE¼SE¼NE¼ sec. 20, T.11 S., R.18 E., Twin Falls County, 3.5 mi (4.0 km) northwest of Rock Creek.	--	--	5-14-80 7- 9-80	91.3 8.55
Cottonwood Creek 13092400	Rock Creek	Lat 42°26'49", long 114°22'41", in SE¼SW¼SW¼ sec. 20, T.11 S., R.18 E., Twin Falls County, at 3100 North Road, 3.9 mi (6.3 km) northwest of Rock Creek.	--	--	5-14-80	1.41
Do.......... 13092552	.....do.......	Lat 42°26'55", long 114°21'17", in NW¼SW¼SE¼ sec. 20, T.11 S., R.18 E., Twin Falls County, 4.1 mi (6.6 km) northwest of Rock Creek.	--	--	7-10-80	12.0
Rock Creek 13092620	Snake River	Lat 42°28'13", long 114°22'34", in SE¼SE¼NE¼ sec. 18, T.11 S., R.18 E., Twin Falls County, at end of private road, 6.0 mi (9.6 km) southeast of Twin Falls.	--	--	5-14-80 7-10-80	111 16.4
Do.......... 13092704	.....do.......	Lat 42°29'17", long 114°23'58", in SE¼NW¼NW¼ sec. 7, T.11 S., R.18 E., Twin Falls County, 4.6 mi (7.4 km) southeast of Twin Falls.	--	--	5-14-80 7-10-80	120 26.3
Do.......... 13092710	.....do.......	Lat 42°31'21", long 114°25'11", in NW¼SW¼SW¼ sec. 25, T.10 S., R.17 E., Twin Falls County, at end of private road and 2.7 mi (4.3 km) southeast of Twin Falls.	--	--	11- 1-79 12-18-79 2-11-80 5-15-80 6-26-80 7-10-80 8-14-80 9-17-80	52.0 31.9 25.8 147 69.9 50.9 61.4 83.0
H Coulee 13092713	Rock Creek	Lat 42°31'37", long 114°26'48", in SW¼NE¼NW¼ sec. 27, T.10 S., R.17 E., Twin Falls County, 1.5 mi (2.4 km) south of Twin Falls.	--	--	5-19-80 7-11-80	9.91 10.9
Rock Creek 13092723	Snake River	Lat 42°32'35", long 114°26'48", in SW¼SW¼NW¼ sec. 22, T.10 S., R.17 E., Twin Falls County.	--	--	3-25-80	36.1
Thorp Seepage Tunnel 13092735	Rock Creek	Lat 42°33'36", long 114°29'35", in NW¼SE¼NW¼ sec. 17, T.10 S., R.17 E., Twin Falls County.	--	--	5-15-80	1.46
K1 Coulee 13092742	.....do.......	Lat 42°33'36", long 114°29'41", in NE¼SW¼NW¼ sec. 17, T.10 S., R.17 E., Twin Falls County.	--	--	5-15-80 7-11-80	10.7 19.4
Orchalora Seepage Tunnel 13092752	.....do.......	Lat 42°34'05", long 114°29'15", in SE¼NE¼SW¼ sec. 8, T.10 S., R.17 E., Twin Falls County.	--	--	5-15-80 7-11-80	3.52 6.21
Rock Creek 13092747	Snake River	Lat 42°33'45", long 114°29'39", in SE¼NW¼NW¼ sec. 17, T.10 S., R.17 E., Twin Falls County, at private bridge 800 ft (244 m) upstream from State Highway 93.	--	--	11- 2-79 12-19-79 2-11-80 4-21-80 5-15-80 6-26-80 7-10-80 8-14-80 9-16-80	129 84.3 56.9 218 227 140 118 160 205
Deadman Gulch 13092754	Rock Creek	Lat 42°33'54", long 114°30'06", in SE¼SW¼SE¼ sec. 7, T.10 S., R.17 E., Twin Falls County.	--	--	3-15-80 5-16-80 7-11-80	9.86 29.4 24.3
O1 Coulee 13092830	.....do.......	Lat 42°34'04", long 114°30'14", in SW¼SE¼SW¼ sec. 7, T.10 S., R.17 E., Twin Falls County, at concrete plant road crossing 0.6 mi (1.0 km) west of Twin Falls.	--	--	5-16-80 7-11-80	10.1 11.3

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Rock Creek basin--Continued				
LP1 Coulee 13092835	Rock Creek	Lat 42°34'38", long 114°31'23", on line between secs. 1 and 12, T.10 S., R.16 E., Twin Falls County, 1.6 mi (2.6 km) west of Twin Falls.	--	--	5-16-80	11.1
LP Coulee 13092850	.....do.......	Lat 42°34'51", long 114°32'01", in NW¼SW¼SW¼ sec. 1, T.10 S., R.16 E., Twin Falls County, at east 2600 Rd., 2.1 mi (3.4 km) west of Twin Falls.	--	--	5-16-80 7-11-80	5.74 7.55
LQ2 Coulee 13093040	.....do.......	Lat 42°37'07", long 114°32'03", in NW¼SW¼NW¼ sec. 25, T.9 S., R.16 E., Twin Falls County, at east 2600 Road, 3.0 mi (4.8 km) northwest of Twin Falls.	--	--	5-16-80 7-11-80	4.17 6.08
		Tributaries between Snake River at Milner and Salmon Falls Creek				
Crystal Springs 13093400	Rock Creek	Lat 42°37'36", long 114°38'32", in sec.12, T.9 S., R.15 E., Gooding County, a series of springs along a 0.6 mi (1.0 km) reach of the right bank of Snake River, 1 mi (1.6 km) upstream from Niagara Springs, and 6.5 mi (10.5 km) north of Filer.	--	1902,1917, 1919, 1924-25, 1931, 1950-59, 1963-79	3-26-80	439
		Cedar Draw basin				
Cedar Draw 13093470	Snake River	Lat 42°31'13", long 113°35'43", on line between secs. 29 and 32, T.10 S., R.16 E., Twin Falls County, at county road crossing 3.1 mi (5.0 km) southeast of Filer.	--	--	11- 8-79 5-12-80 6-27-80 9-16-80	0 20.8 2.27 37.2
Do.......... 13093475	.....do.......	Lat 42°32'37", long 114°36'48", on line between secs. 19 and 20, T.10 S., R.16 E., Twin Falls County, at county road crossing 1.4 mi (2.2 km) south of Filer.	--	--	11- 9-79 4-22-80 5-12-80 6-27-80 8-15-80 9-16-80 10-24-80	b0.25 49.5 131 1.10 .09 63.9 122
Do.......... 13093478	.....do.......	Lat 42°33'50", long 114°37'24", on line between secs.7 and 8, T.10 S., R.16 E., Twin Falls County, at Clover Road crossing 0.5 mi (0.8 km) west of Filer.	--	--	7- 8-80	5.52
Padget Seepage Tunnel 13093478	Cedar Draw	Lat 42°34'02", long 114°37'42", in NE¼SW¼SW¼ sec. 7, T.10 S., R.16 E., Twin Falls County, at roadside park 0.8 mi (1.3 km) west of Filer.	--	--	7- 8-80	4.35
Hypotheek Seepage Tunnel 13093488	.....do.......	Lat 42°34'56", long 114°37'34", in NW¼SE¼SW¼ sec. 6, T.10 S., R.16 E., Twin Falls County, 0.8 mi (1.3 km) northwest of Filer.	--	--	5-12-80 7- 8-80	2.29 4.00
Vining Seepage Tunnel 13093492	.....do.......	Lat 42°35'20", long 114°37'38", in NW¼SE¼NW¼ sec. 6, T.10 S., R.16 E., Twin Falls County, 1.1 mi (1.8 km) northwest of Filer.	--	--	7- 8-80	.48
Cedar Draw 13093494	Snake River	Lat 42°35'37", long 114°37'50", on line between sec.31, T.9 S., R.16 E., and sec.6, T.10 S., R.16 E., Twin Falls County, at Highway 30 crossing, 1.5 mi (2.4 km) northwest of Filer.	--	--	7- 8-80	33.2
E Coulee 13093497	Cedar Draw	Lat 42°36'29", long 114°38'37", in NW¼NW¼NE¼ sec. 36, T.9 S., R.15 E., Twin Falls County, 2.7 mi (4.3 km) northwest of Filer.	--	--	5-13-80	21.1
L F Coulee 13093497	.....do.......	Lat 42°37'22", long 114°39'47", in SW¼SW¼SE¼ sec. 23, T.9 S., R.15 E., Twin Falls County, 4.1 mi (6.6 km) northwest of Filer.	--	--	5-12-80 7- 8-80	22.6 24.5
I-10 Coulee 13093520	.....do.......	Lat 42°38'32", long 114°40'24", on line between secs.14 and 15, T.9 S., R.15 E., Twin Falls County, 5.4 mi (8.7 km) northwest of Filer.	--	--	7- 8-80	2.65
Cedar Draw 13093530	.....do.......	Lat 42°38'57", long 114°39'32", in SE¼NW¼NE¼ sec. 14, T.9 S., R.15 E., Twin Falls County, at hatchery diversion and 5.7 mi (9.2 km) northwest of Filer.	--	--	11- 9-79 12-20-79 2-12-80 4-22-80 7- 7-80 8- 8-80	69.7 54.7 37.0 95.8 83.4 101
Do.......... 13093650	.....do.......	Lat 42°39'26", long 114°39'42", in SE¼NE¼SW¼ sec. 11, T.9 S., R.15 E., Twin Falls County, 5.2 mi (8.4 km) northeast of Buhl.	--	1958-59	5-13-80 5-23-80 7-21-80 9-15-80	318 b202 88.3 280
		Tributaries between Snake River at Milner and Salmon Falls Creek				
Niagara Springs 13093700	Cedar Draw	Lat 42°39'46", long 114°40'24", in NW¼SW¼NW¼ sec. 11, T.9 S., R.15 E., Gooding County, in spring outlet channel 120 ft (37 m) upstream from mouth, 880 ft (268 m) downstream from source, 6 mi (9.7 km) northeast of Buhl, and 599.1 mi (963.9 km) upstream from mouth of Snake River	--	1958-72‡, 1973-79	3-27-80	240

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Tributaries between Snake River at Milner and Salmon Falls Creek--Continued						
Clear Lakes Spring Outlet 13094500	Snake River	Lat 42°40'01", long 114°46'45", in SW¼SE¼ sec. 2, T.9 S., R.14 E., Gooding County, at Clear Lakes powerplant of Idaho Power Co. and 4.5 mi (7.2 km) north of Buhl.	--	1902, 1913-14, 1917-21‡, 1924,1926, 1937, 1950-59, 1963-79	3-27-80	511
Mud Creek basin						
Mud Creek 13094700	Snake River	Lat 42°39'37", long 114°47'38", SW¼SE¼NE¼ sec. 10, T.9 S., R.14 E., Twin Falls County, 0.5 mi (0.80 km) upstream from mouth, and 4.5 mi (8.6 km) northwest of Buhl.	--	1958-59	3-25-80	59.3
					5-23-80	112
					7-21-80	73.2
					9-15-80	142
Deep Creek basin						
Deep Creek 13095000	Snake River	Lat 42°37'05", long 114°50'40", in SE¼NW¼ sec.29, T.9 S., R.14 E., on right bank, 0.2 mi (0.3 km) upstream from Highway 30, and 4.5 mi (7.2 km) northwest of Buhl.	---	1955-58‡	4-23-80	16.6
					6-27-80	25.7
					8-15-80	11.5
					9-15-80	232
Do.......... 13095050	.....do.......	Lat 42°39'30", long 114°48'33", in NW¼NW¼SW¼ sec. 10, T.9 S., R.14 E., Twin Falls County, 5 mi (8.0 km) northwest of Buhl at county road crossing.	--	1958-59	3-25-80	18.9
					5-23-80	b75
					7-21-80	b75
					9-15-80	b182
Tributaries between Snake River at Milner and Salmon Falls Creek						
Briggs Creek 13095200	Snake River	Lat 42°40'20", long 114°49'00", in NW¼SE¼ sec. 4, T.9 S., R.14 E., Gooding County, 500 ft (152 m) upstream from mouth on right bank of Snake River, 2 mi (3.2 km) downstream from Clear Lakes Spring Outlet, and 6 mi (9.7 km) northwest of Buhl.	--	1902,1913, 1917-20, 1924-25, 1931, 1950-59, 1963-79	3-27-80	109
					5-19-80	109
					7-25-80	120
Banbury Springs 13095300	.....do.......	Lat 42°41'31", long 114°49'11", in SE¼NW¼ sec. 33, T.8 S., R.14 E., Gooding County, at outlet on right bank of Snake River and 7 mi (11 km) northwest of Buhl.	--	1902,1913, 1917, 1919-20, 1924-25, 1950-59, 1963-71, 1973-79	3-25-80	120
Unnamed Spring 13095350	.....do.......	Lat 42°41'51", long 114°49'21", in SE¼SW¼ sec. 28, T.8 S., R.14 E., Gooding County, on right bank of Snake River, 0.4 mi (0.6 km) south of Blind Canyon Spring, and 7.5 mi (12.1 km) northwest of Buhl.	--	1950-59, 1963-71, 1973-79	3-25-80	4.06
Cedar Draw Creek 13095360	.....do.......	Lat 42°41'20", long 114°47'27", in SW¼SW¼NW¼ sec. 35, T.8 S., R.14 E., Gooding County, 1.5 mi (2.4 km) northwest of Clear Lakes.	--	--	5-23-80	31
					7-21-80	35
					9-15-80	24.2
Snake River basin						
Waste Drain 13095370	Snake River	Lat 42°42'28", long 114°47'26", in NW¼NW¼NW¼ sec. 26, T.8 S., R.14 E., Gooding County, at road crossing 3.7 mi (6.0 km) northwest of Clear Lakes.	--	--	5-23-80	21
					7-21-80	22.8
					9-15-80	29.6
Tributaries between Snake River at Milner and Salmon Falls Creek						
Blind Canyon 13095400	Snake River	Lat 42°42'12", long 114°49'20", in SE¼NW¼ sec. 28, T.8 S., R.14 E., Gooding County, at outlet on right bank of Snake River, 0.2 mi (0.3 km) upstream from Box Canyon Springs outlet, and 8 mi (12.9 km) northwest of Buhl.	--	1902,1917, 1919, 1950-59, 1963-79	3-25-80	9.60
Salmon Falls Creek basin						
Soldier Creek 13106535	Salmon Falls Creek	Operated as a crest-stage station.	--	1973-79	3-25-80	0
					5-20-80	0
					8-13-80	b.30
					9-12-80	b.10
Snake River basin						
Snake River 13108160	Columbia River	Lat 42°43'27", long 114°50'48", in NE¼NW¼NW¼ sec. 20, T.8 S., R.14 E., Twin Falls-Gooding County line, 0.6 mi (1.0 km) below mouth of Salmon Falls Creek, 1.4 mi (2.3 km) above Thousand Springs powerhouse, 7 mi (11 km) southeast of Hagerman, and at mile 586.1 (943.0 km).	--	1950-59, 1963-71, 1973-79	3-25-80	4,250

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
Mud Lake-Lost River basins						
Camas Creek 13108500	Snake River	Lat 44°18', long 111°52', in NW¼ sec.7, T.11 N., R.39 E., Clark County, at Eighteenmile Shearing Corral 7 mi (11.3 km) south of Kilgore.	—	1937-53‡, 1957-58	6- 4-80	950
Big Lost River tributary No. 2 13132555	Big Lost River	Operated as a crest-stage station.	8.7	1962, 1974-79a	1-15-80	2.2
Tributaries to Snake River from Thousand Springs to Big Wood River						
Sand Springs Creek 13132600	Snake River	Lat 42°43'36", long 114°50'00", in SE¼ sec.17, T.8 S., R.14 E., Gooding County, on right bank of Snake River, 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11.3 km) southeast of Hagerman.	—	1902, 1912-13, 1917-21, 1924-25, 1932, 1954-59, 1963-79	3-25-80 5-19-80 7-25-80 9-19-80	76.8 76.2 83.0 91.0
Sand Springs Creek Drain 13132610	.....do.......	Lat 42°43'51", long 114°49'48", in NW¼NW¼SW¼ sec. 16, T.8 S., R.14 E., Gooding County, at road crossing 7 mi (11.3 km) southeast of Hagerman.	—	—	5-23-80 7-21-80 9-15-80	6.7 5.52 11.7
Thousand Springs 13132800	.....do.......	Lat 42°45', long 114°51'. Springs enter right bank of Snake River between mile 585.5 (942.6 km) near line between secs.17 and 20, T.8 S., R.14 E., and mile 583.0 (938.0 km), about 200 ft (61 m) upstream from line between sec.1, T.8 S., R.13 E., and sec.6, T.8 S., R.18 E., Gooding County, 6 mi (9.7 km) southwest of Hagerman.	—	1950-59, 1963-71, 1973-79	3-25-80	1,410
Snake River basin						
Snake River 13132801	Columbia River	Lat 42°45'26", long 114°52'01", in NW¼SW¼SW¼ sec. 6, T.8 S., R.14 E., Twin Falls-Gooding County line, 0.2 mi (0.3 km) upstream from mouth of Riley Creek, 0.8 mi (1.3 km) below Thousand Springs powerplant, 4.2 mi (6.8 km) southeast of Hagerman, and at mile 583.6 (939.0 km).	—	1950-59, 1963-71, 1973-79	3-25-80	5,660
Tributaries to Snake River from Thousand Springs to Big Wood River						
Riley Creek 13133800	Snake River	Lat 42°45'46", long 114°51'31", in SE¼NE¼ sec. 6, T.8 S., R.14 E., Gooding County, at Hagerman Hatchery of U.S. Fish & Wildlife Service, 100 ft (30 m) downstream from small unnamed spring entering from right, 260 ft (79.2 m) upstream from discontinued station below Lewis Spring, 300 ft (91.4 m) downstream from mouth of Lewis Creek, about 2 mi (3.2 km) upstream from mouth, and 4.2 mi (6.8 km) southeast of Hagerman.	--	1950-59, 1963-79	3-25-80	63.1
Do.......... 13134000	.....do.......	Lat 42°45'50", long 114°51'30", in SE¼NW¼ sec.6, T.8 S., R.14 E., Gooding County, 560 ft (170.7 m) downstream from Lewis Spring, 100 ft (30 m) above road bridge and 4.2 mi (6.8 km) southeast of Hagerman.	--	1950-55	7-25-80 9-19-80	66.3 66.0
Billingsley Creek 13134600	.....do.......	Lat 42°46'35", long 114°50'55", in SW¼SW¼NW¼ sec. 32, T.7 S., R.14 E., Gooding County, 0.1 mi (0.2 km) downstream from head of creek, 3.8 mi (6.1 km) southeast of Hagerman, and about 7.5 mi (12.1 km) upstream from mouth.	--	1902, 1917,1931, 1950-59, 1963-79	3-25-80 5-19-80 7-25-80 9-19-80	32.1 14.9 20.7 37.9
Do........ 13134800	.....do.......	Lat 42°50'10", long 114°53'40", in SW¼NE¼ sec.11, T.7 S., R.13 E., Gooding County, 700 ft (213 m), northwest of U.S. Highway 30 bridge and 1.4 mi (2.3 km) north of Hagerman.	--	1902,1917, 1919, 1924-25, 1932. 1956-59. 1963-79	3-24-80	143
Birch Creek 13135100	.....do.......	Lat 42°51'10", long 114°53'30", in SE¼SE¼ sec.34, T.6 S., R.13 E., Gooding County, just downstream from left bank tributary, 0.5 mi (0.8 km) upstream from entry to right bank of Snake River, 0.8 mi (1.3 km) south of Big Wood River, and 2.5 mi (4.0 km) north of Hagerman.	—	1917,1919, 1950-59 1963-79	3-24-80	8.96
Big Wood River basin						
Schooler Creek 13145700	Thorn Creek	Operated as a crest-stage station.	2.22	1961-79a	8-19-80	0
Little Wood River 13151500	Snake River	Lat 42°56', long 114°24', NE¼ sec.2, T.6 S., R.17 E., Lincoln County, just upstream from diversion dam and 400 ft (122 m) upstream from Highway 93A bridge.	c620	1922-59‡	3-26-80	137

Discharge measurements made at miscellaneous sites during water year 1980

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Big Wood River basin--Continued				
Little Wood River 13151900	Snake River	Lat 42°55'27", long 114°48'28", on section line between secs.3 and 4, T.6 S., R.15 E., Gooding County, at county road crossing 2 mi (3.2 km) east of Gooding.	—	—	3-26-80	110
Big Wood River 13152300	.....do.....	Lat 42°56'00", long 114°40'20", in NW¼ sec.9, T.6 S., R.14 E., Gooding County, at Highway 20 crossing 5.0 mi (8.0 km) west of Gooding.	—	—	3-24-80	81.8
Malad Springs 13153400	.....do.......	Lat 42°52'00", long 114°51'54". Springs head in SE¼ sec.24, T.6 S., R.13 E., Gooding County, and continue to accumulate to the Big Wood River until it enters the right bank of the Snake River at mile 571.2 (919.1 km) in NW¼ sec.34, T.6 S., R.13 E., and 3.0 mi (4.8 km) north of Hagerman.	—	1902, 1910-11, 1913,1917, 1919-21, 1924-25, 1946, 1950-59, 1963-64, 1971, 1974-75, 1979	3-24-80	1,230
		Snake River basin				
Unnamed Spring No. 1 13153720	Snake River	Lat 42°52'45", long 114°55'00", in NE¼NW¼NE¼ sec. 28, T.6 S., R.13 E., Gooding County, and 3.6 mi (5.8 km) southeast of Bliss.	—	1967	3-27-80	13.6
Unnamed Spring No. 2 13153740	.....do.......	Lat 42°53'00", long 114°55'00", in NW¼SW¼SE¼ sec. 21, T.6 S., R.13 E., and 3.4 mi (5.5 km) southeast of Bliss.	—	1967	3-27-80	2.26
Snake River tributary No. 10 13153777	.....do.......	Operated as a crest-stage station.	—	1973-79a	3-29-80	0
		Clover Creek basin				
Clover Creek 13154000	Snake River	Operated as a crest-stage station.	140	1938-43‡, 1957-62‡, 1963-79a	1-18-80	120
Do........ 13154400	.....do.......	Lat 43°00'05", long 115°10'50", in SE¼NW¼SE¼ sec. 8, T.5 S., R.11 E., Elmore County at Highway 30 crossing, 1.2 mi (1.9 km) east of King Hill.	265	1964	3-24-80 5-23-80 7-21-80 9-15-80	68.6 14.9 8.02 10.8

‡ Operated as a continuous-record gaging station.
a Operated as a crest-stage station.
b Estimated.
c Approximately.

Water-quality partial-record stations are particular sites where chemical-quality, biological, and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. The data are collected usually less than quarterly.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
SNAKE RIVER BASIN										
13069505 - JOHANNES SPRINGS (LAT 43 06 04 LONG 112 32 18)										
MAR , 1980										
26...	1045	24	540	7.8	10.0	220	9	58	18	27
JUL										
22...	1250	25	659	7.8	11.0	260	43	69	22	34
SEP										
17...	1015	29	596	7.6	11.5	250	50	64	22	33
13069515 - MCTUCKER CREEK NR PINGREE ID (LAT 43 02 03 LONG 112 37 33)										
MAR , 1980										
26...	1410	18	852	7.5	12.0	300	79	67	32	62
MAY										
20...	1545	44	684	7.3	13.5	230	63	57	22	36
JUL										
22...	1830	23	880	8.1	12.0	320	88	73	33	70
SEP										
17...	1415	14	992	7.6	13.0	320	94	72	35	73
13069540 - DANIELSON CR NR SPRINGFIELD IDAHO (LAT 43 03 32 LONG 112 41 23)										
MAR , 1980										
26...	1625	51	599	8.4	10.5	250	57	61	23	38
JUL										
23...	1823	55	559	8.7	22.0	220	49	53	21	32
SEP										
17...	1750	63	606	8.4	15.0	220	31	54	21	33
SNAKE RIVER BASIN--Continued										
13076600 - HEUGER SPRINGS NEAR AMERICAN FALLS, IDAHO (LAT 42 46 00 LONG 112 52 55)										
MAR , 1980										
27...	1217	20	--	8.1	10.0	250	48	63	22	44
MAY										
21...	1035	21	597	8.0	14.5	250	55	64	23	43
JUL										
23...	0955	18	695	--	14.5	260	60	68	22	44
SEP										
18...	0935	21	663	8.0	14.0	250	58	63	22	42

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
SNAKE RIVER BASIN--Continued										
13069505 - JOHANNES SPRINGS (LAT 43 06 04 LONG 112 32 18)										
MAR , 1980										
26...	21	.8	4.3	210	43	.7	24	330	.45	21.0
JUL										
22...	22	.9	4.9	220	57	.8	28	394	.54	26.9
SEP										
17...	22	.9	4.6	200	61	.8	26	389	.53	30.6
13069515 - MCTUCKER CREEK NR PINGREE ID (LAT 43 02 03 LONG 112 37 33)										
MAR , 1980										
26...	31	1.6	6.4	220	100	.7	29	518	.70	25.5
MAY										
20...	25	1.0	4.2	170	68	.6	20	364	.50	43.9
JUL										
22...	32	1.7	6.4	230	99	.7	29	555	.75	34.5
SEP										
17...	32	1.8	6.5	230	110	.7	26	585	.80	22.3
13069540 - DANIELSON CR NR SPRINGFIELD IDAHO (LAT 43 03 32 LONG 112 41 23)										
MAR , 1980										
26...	25	1.1	5.4	190	69	.6	26	385	.52	53.0
JUL										
23...	24	.9	5.2	170	60	.7	22	335	.46	50.1
SEP										
17...	24	1.0	5.7	190	58	.7	25	353	.48	60.0
SNAKE RIVER BASIN--Continued										
13076600 - REUGER SPRINGS NEAR AMERICAN FALLS, IDAHO (LAT 42 46 00 LONG 112 52 55)										
MAR , 1980										
27...	27	1.2	6.3	200	82	.5	34	429	.58	23.2
MAY										
21...	26	1.2	6.0	200	81	.5	35	435	.59	25.0
JUL										
23...	26	1.2	5.8	200	77	.6	35	430	.58	20.9
SEP										
18...	26	1.2	5.9	190	81	.5	34	425	.58	24.1

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)
SNAKE RIVER BASIN--Continued									
13069505 - JOHANNES SPRINGS (LAT 43 06 04 LONG 112 32 18)									
MAR , 1980 26...	1.4	.020	.06	--	--	--	--	--	--
JUL 22...	2.6	.040	.12	6.7	<.4	5.7	.5	6.1	.5
SEP 17...	2.4	.030	.09	5.9	<.4	7.8	<.4	8.3	<.4
13069515 - MCTUCKER CREEK NR PINGREE ID (LAT 43 02 03 LONG 112 37 33)									
MAR , 1980 26...	2.2	.040	.12	--	--	--	--	--	--
MAY 20...	1.4	.010	.03	--	--	--	--	--	--
JUL 22...	2.7	.050	.15	<6.7	<.4	6.9	<.4	7.2	<.4
SEP 17...	2.7	.050	.15	21	<.4	7.2	<.4	7.5	<.4
13069540 - DANIELSON CR NR SPRINGFIELD IDAHO (LAT 43 03 32 LONG 112 41 23)									
MAR , 1980 26...	.80	.040	.12	--	--	--	--	--	--
JUL 23...	.57	.020	.06	<4.0	<.4	3.8	2.2	4.0	2.2
SEP 17...	.49	.030	.09	9.2	<.4	7.7	<.4	8.2	<.4
SNAKE RIVER BASIN--Continued									
13076600 - REUGER SPRINGS NEAR AMERICAN FALLS, IDAHO (LAT 42 46 00 LONG 112 52 55)									
MAR , 1980 27...	1.1	.070	.21	--	--	--	--	--	--
MAY 21...	2.2	.040	.12	--	--	--	--	--	--
JUL 23...	1.2	.080	.25	<5.8	<.4	8.8	.4	9.3	.4
SEP 18...	1.2	.090	.28	<6.0	<.4	7.8	<.4	8.3	<.4

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
TRIBUTARIES BETWEEN SNAKE RIVER AT MILNER AND SALMON FALLS CREEK										
13089500 - 10S 18E 04AAD1S DEVILS WASHBOWL SP NR KIMBERLY (LAT 42 35 18 LONG 114 20 45)										
MAY , 1980										
22...	1140	--	651	8.2	15.0	240	29	56	24	46
JUN										
27...	1120	17	586	8.4	15.0	230	35	56	23	47
JUL										
21...	1120	16	654	8.3	16.5	240	31	57	24	47
SEP										
17...	1345	16	625	8.1	17.0	230	22	55	23	45
13089600 - 10S 18E 04AAD2S DEVILS WASHBOWL SP NR KIMBERLY (LAT 42 35 18 LONG 114 20 45)										
MAR , 1980										
26...	1540	14	627	8.8	13.5	220	35	52	23	46
JUN										
27...	1140	20	592	8.4	15.0	230	32	55	23	43
JUL										
21...	1140	22	625	8.3	17.5	230	28	55	22	42
13090100 - 09S 18E 32DD 1S DEVILS CORRAL SPR UPPER OUTLET (LAT 42 35 38 LONG 114 21 55)										
MAR , 1980										
27...	0910	46	642	8.2	14.0	230	31	58	21	44
13093398 - 09S 15E 12BCA1S CRYSTAL SPR TRIB 8 (LAT 42 39 42 LONG 114 38 59)										
MAR , 1980										
26...	1100	15	631	8.1	14.0	240	56	55	24	31
13093700 - 09S 15E 10AA1S NIAGARA SP NR BUHL ID (LAT 42 39 48 LONG 114 40 25)										
MAR , 1980										
27...	1315	220	583	8.5	13.5	220	66	52	21	29
13095175 - 09S 14E 03CBA1S BRIGGS CR AT HEAD NR BUHL, IDAHO (LAT 42 40 26 LONG 114 48 30)										
MAR , 1980										
27...	1500	109	446	8.3	--	170	34	40	18	23
MAY										
19...	1645	105	443	7.7	17.0	170	32	39	18	21
JUL										
25...	1000	117	433	7.9	14.4	160	12	37	17	21
SEP										
19...	0900	119	397	8.0	14.2	170	19	38	18	21
MUD LAKE-LOST RIVER BASINS										
13117020 - BIRCH CREEK AT BLUE DOME INN NEAR RENO, ID (LAT 44 09 14 LONG 112 54 24)										
MAY , 1980										
28...	--	73	--	--	8.0	180	28	45	16	6.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
TRIBUTARIES BETWEEN SNAKE RIVER AT MILNER AND SALMON FALLS CREEK--Continued										
13089500 - 10S 18E 04AAD1S DEVILS WASHBOWL SP NR KIMBERLY (LAT 42 35 18 LONG 114 20 45)										
MAY , 1980 22...	29	1.1	7.2	210	66	.4	40	429	.58	--
JUN 27...	30	1.3	7.6	200	65	.3	41	411	.56	18.9
JUL 21...	29	1.3	7.0	210	64	.4	41	418	.57	18.5
SEP 17...	29	1.3	6.8	210	64	.3	42	412	.56	18.6
13089600 - 10S 18E 04AAD2S DEVILS WASHBOWL SP NR KIMBERLY (LAT 42 35 18 LONG 114 20 45)										
MAR , 1980 26...	30	1.3	7.0	190	67	.4	42	401	.55	15.2
JUN 27...	28	1.2	7.4	200	63	.3	37	396	.54	21.4
JUL 21...	28	1.2	6.9	200	59	.5	36	387	.53	22.8
13090100 - 09S 18E 32DD 1S DEVILS CORRAL SPR UPPER OUTLET (LAT 42 35 38 LONG 114 21 55)										
MAR , 1980 27...	28	1.3	7.2	200	63	.4	42	404	.55	--
13093398 - 09S 15E 12BCA1S CRYSTAL SPR TRIB 8 (LAT 42 39 42 LONG 114 38 59)										
MAR , 1980 26...	22	.9	5.1	180	61	.5	34	370	.50	15.3
13093700 - 09S 15E 10AA1S NIAGARA SP NR BUHL ID (LAT 42 39 48 LONG 114 40 25)										
MAR , 1980 27...	22	.9	4.6	150	55	.5	34	333	.45	216
13095175 - 09S 14E 03CBA1S BRIGGS CR AT HEAD NR BUHL, IDAHO (LAT 42 40 26 LONG 114 48 30)										
MAR , 1980 27...	22	.8	3.9	140	41	.4	35	273	.37	80.3
MAY 19...	21	.7	3.9	140	40	.6	35	268	.36	76.0
JUL 25...	21	.7	3.9	150	37	.8	33	267	.36	84.3
SEP 19...	21	.7	3.7	150	38	.6	35	273	.37	87.7
MUD LAKE-LOST RIVER BASINS--Continued										
13117020 - BIRCH CREEK AT BLUE DOME INN NEAR RENO, ID (LAT 44 09 14 LONG 112 54 24)										
MAY , 1980 28...	7	.2	1.1	150	27	.1	9.6	215	.29	42.6

DATE	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS PO4)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP, TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP, TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP, TOTAL (PCI/L AS CS-137)
TRIBUTARIES BETWEEN SNAKE RIVER AND SALMON FALLS CREEK--Continued									
13089500 - 10S 18E 04AAD1S DEVILS WASHBOWL SP NR KIMBERLY (LAT 42 35 18 LONG 114 20 45)									
MAY , 1980									
22...	4.5	.060	.18	--	--	--	--	--	--
JUN									
27...	2.0	.000	.00	--	--	--	--	--	--
JUL									
21...	2.4	.020	.06	--	--	--	--	--	--
SEP									
17...	2.0	.040	.12	<6.7	<.4	4.2	.8	4.3	.7
13089600 - 10S 18E 04AAD2S DEVILS WASHBOWL SP NR KIMBERLY (LAT 42 35 18 LONG 114 20 45)									
MAR , 1980									
26...	2.1	.000	.00	6.7	<.4	7.7	<.4	7.8	<.4
JUN									
27...	1.8	.010	.03	--	--	--	--	--	--
JUL									
21...	2.1	.090	.28	13	<.4	5.0	<.4	5.3	<.4
13090100 - 09S 18E 32DD 1S DEVILS CORRAL SPR UPPER OUTLET (LAT 42 35 38 LONG 114 21 55)									
MAR , 1980									
27...	1.9	.010	.03	8.6	<.4	8.1	<.4	8.0	<.4
13093398 - 09S 15E 12BCA1S CRYSTAL SPR TRIB A (LAT 42 39 42 LONG 114 38 59)									
MAR , 1980									
26...	1.7	.030	.09	<5.4	<.4	5.3	<.4	5.3	<.4
13093700 - 09S 15E 10AA1S NIAGARA SP NR BUHL ID (LAT 42 39 48 LONG 114 40 25)									
MAR , 1980									
27...	1.2	.030	.09	<4.9	<.4	3.7	<.4	3.7	<.4
13095175 - 09S 14E 03CBA1S BRIGGS CR AT HEAD NR BUHL, IDAHO (LAT 42 40 26 LONG 114 48 30)									
MAR , 1980									
27...	1.1	.020	.06	<3.9	<.4	4.1	<.4	4.1	<.4
MAY									
19...	.81	.030	.09	<3.4	<.4	4.1	<.4	4.3	<.4
JUL									
25...	1.1	.010	.03	<5.0	<.4	2.9	<.4	3.1	<.4
SEP									
19...	1.0	.080	.25	4.4	<.4	3.5	<.4	3.7	<.4
MUD LAKE-LOST RIVER BASINS--Continued									
13117020 - BIRCH CREEK AT BLUE DOME INN NEAR RENO, ID (LAT 44 09 14 LONG 112 54 24)									
MAY , 1980									
28...	3.2	.010	.03	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)
MUD LAKE-LOST RIVER BASINS--Continued										
13117030 - BIRCH CREEK AT EIGHT MILE CANYON ROAD NR RENO,ID (LAT 44 04 49 LONG 112 52 30)										
MAY , 1980 28...	1603	50	--	--	13.0	170	6	40	16	6.3
TRIBUTARIES TO SNAKE RIVER FROM THOUSAND SPRINGS TO BIG WOOD RIVER										
13132595 - 08S 14E 21ABA1S SAND SPRING NR HAGERMAN ID (LAT 42 43 28 LONG 114 49 00)										
MAR , 1980 25...	1515	77	388	8.1	14.5	150	8	33	16	19
13132600 - 08S 14E 17DDC1S SAND SPR CR BL PONDS NR HAGERMAN (LAT 42 43 36 LONG 114 50 00)										
MAY , 1980 19...	1345	--	382	8.4	18.0	160	17	35	17	20
JUL 25...	1245	83	401	8.4	17.1	150	10	32	17	19
SEP 19...	1130	77	384	8.2	15.7	160	12	35	18	21
13132790 - 08S 14E 06DAC1S (LAT 42 45 29 LONG 114 51 19)										
MAR , 1980 25...	1040	19	323	8.6	15.0	130	8	28	14	17
13132800 - THOUSAND SPRINGS AT MOUTH, NR HAGERMAN, ID (LAT 42 44 23 LONG 114 50 27)										
MAR , 1980 25...	1300	1410	362	8.4	15.0	140	7	30	15	18
13134600 - 07S 14E 32BCD1S BILLINGSLY CR AT HEAD (LAT 42 46 35 LONG 114 50 55)										
MAR , 1980 25...	0840	32	331	8.5	14.0	130	4	29	15	17
MAY 19...	1210	14	339	8.1	15.2	140	11	30	16	16
JUL 25...	1515	20	384	8.1	15.4	140	8	29	16	17
SEP 19...	1400	37	335	8.1	16.4	140	2	29	17	18
BIG WOOD RIVER BASIN										
13152930 - MALAD SPRING 3 ABV LOWER MALAD DAM NR HAGERMAN I (LAT 42 51 51 LONG 114 52 26)										
FEB , 1980 15...	1000	--	326	7.4	14.5	150	11	35	15	16
MAR 28...	1050	105	319	7.9	15.5	130	0	28	14	17
MAY 23...	0900	--	318	76.0	15.5	130	0	27	15	16
JUL 24...	1430	--	345	8.0	15.5	130	0	29	15	16

ANALYSES OF SAMPLES COLLECTED AT PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	SOLIDS, DIS-SOLVED (TONS PER DAY)
MUD LAKE-LOST RIVER BASINS--Continued										
13117030 - BIRCH CREEK AT EIGHT MILE CANYON ROAD NR RENO,ID (LAT 44 04 49 LONG 112 52 30)										
MAY , 1980 28...	8	.2	1.2	160	28	.1	9.2	205	.28	27.7
TRIBUTARIES TO SNAKE RIVER FROM THOUSAND SPRINGS TO BIG WOOD RIVER--Continued										
13132595 - 08S 14E 21ABA1S SAND SPRING NR HAGERMAN ID (LAT 42 43 28 LONG 114 49 00)										
MAR , 1980 25...	21	.7	3.6	140	33	.5	33	242	.33	50.3
13132600 - 08S 14E 17DDC1S SAND SPR CR HL PONDS NR HAGERMAN (LAT 42 43 36 LONG 114 50 00)										
MAY , 1980 19...	21	.7	3.7	140	35	.6	34	248	.34	--
JUL 25...	21	.7	3.7	140	33	.8	32	240	.33	53.8
SEP 19...	22	.7	3.6	150	34	.6	35	256	.35	53.5
13132790 - 08S 14E 06DAC1S (LAT 42 45 29 LONG 114 51 19)										
MAR , 1980 25...	22	.7	3.5	120	25	.5	34	208	.28	10.7
13132800 - THOUSAND SPRINGS AT MOUTH, NR HAGERMAN, ID (LAT 42 44 23 LONG 114 50 27)										
MAR , 1980 25...	22	.7	3.8	130	32	.5	33	227	.31	864
13134600 - 07S 14E 32BCD1S BILLINGSLY CR AT HEAD (LAT 42 46 35 LONG 114 50 55)										
MAR , 1980 25...	21	.6	3.7	130	26	.6	34	218	.30	18.8
MAY 19...	19	.6	3.7	130	25	.5	35	218	.30	8.77
JUL 25...	21	.6	3.8	130	26	.7	33	217	.30	12.1
SEP 19...	21	.7	3.5	140	26	.4	37	228	.31	23.3
BIG WOOD RIVER BASIN--Continued										
13152930 - MALAD SPRING 3 ABV LOWER MALAD DAM NR HAGERMAN I (LAT 42 51 51 LONG 114 52 26)										
FEB , 1980 15...	19	.6	3.4	139	22	.4	31	219	.29	--
MAR 28...	22	.7	3.5	131	22	.5	35	211	.29	59.8
MAY 23...	21	.6	3.4	136	21	.4	33	209	.27	--
JUL 24...	20	.6	3.8	131	24	.5	34	215	.30	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, TOTAL (MG/L AS PO4)	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)
MUD LAKE-LOST RIVER BASINS--Continued									
13117030 - BIRCH CREEK AT EIGHT MILE CANYON ROAD NR RENO,ID (LAT 44 04 49 LONG 112 52 30)									
MAY , 1980									
28...	.42	.010	.03	--	--	--	--	--	--
TRIBUTARIES TO SNAKE RIVER FROM THOUSAND SPRINGS TO BIG WOOD RIVER--Continued									
13132595 - 08S 14E 21ABA1S SAND SPRING NR HAGERMAN ID (LAT 42 43 28 LONG 114 49 00)									
MAR , 1980									
25...	1.0	.020	.06	<3.1	<.4	4.3	<.4	4.3	<.4
13132600 - 08S 14E 17DDC1S SAND SPR CR BL PONDS NR HAGERMAN (LAT 42 43 36 LONG 114 50 00)									
MAY , 1980									
19...	.50	--	--	<3.2	<.4	3.4	.4	3.6	.4
JUL									
25...	.75	.010	.03	<5.2	<.4	3.7	<.4	3.9	<.4
SEP									
19...	.70	.050	.15	4.2	<.4	3.9	<.4	4.2	<.4
13132790 - 08S 14E 06DAC1S (LAT 42 45 29 LONG 114 51 19)									
MAR , 1980									
25...	.65	.010	.03	3.8	<.4	3.1	<.4	3.1	<.4
13132800 - THOUSAND SPRINGS AT MOUTH, NR HAGERMAN, ID (LAT 42 44 23 LONG 114 50 27)									
MAR , 1980									
25...	.79	.020	.06	<2.7	<.4	3.2	<.4	3.2	<.4
13134600 - 07S 14E 32BCD1S BILLINGSLY CR AT HEAD (LAT 42 46 35 LONG 114 50 55)									
MAR , 1980									
25...	.74	.020	.06	<6.7	<.4	6.5	<.4	6.4	<.4
MAY									
19...	.55	.020	.06	<2.7	<.4	3.1	<.4	3.3	<.4
JUL									
25...	.86	.010	.03	<3.8	<.4	3.0	<.4	3.1	<.4
SEP									
19...	.61	.030	.09	6.3	<.4	5.5	<.4	5.9	<.4
BIG WOOD RIVER BASIN--Continued									
13152930 - MALAD SPRING 3 ABV LOWER MALAD DAM NR HAGERMAN I (LAT 42 51 51 LONG 114 52 26)									
FEB , 1980									
15...	.81	.000	.00	--	--	--	--	--	--
MAR									
28...	.72	.010	.03	2.9	<.4	2.4	<.4	2.4	<.4
MAY									
23...	.70	.020	.06	--	--	--	--	--	--
JUL									
24...	1.0	.010	.03	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites.

BEAR RIVER BASIN

10090800 - BATTLE CREEK TRIBUTARY NEAR TREASURETON, ID (LAT 42 16 40 LONG 111 48 50)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
OCT , 1979						MAY , 1980					
24...	1035	.55	668	13.0	7.0	14...	1220	2.0	307	17.5	13.0
FEB , 1980											
07...	1010	.66	547	5.0	1.5						

10091130 - SWAN LAKE CREEK NEAR SWAN LAKE, ID (LAT 42 20 31 LONG 111 59 05)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
OCT , 1979						MAY , 1980					
24...	1305	.95	537	15.0	8.5	14...	0812	1.8	481	7.0	6.5
FEB , 1980											
07...	1255	.96	625	14.0	4.5						

TRIBUTARIES BETWEEN GREAT SALT LAKE DESERT AND BEAR RIVER

10172970 - ROCK CREEK NEAR HOLBROOK, IDAHO (LAT 42 13 51 LONG 112 43 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
OCT , 1979						MAY , 1980					
25...	1200	1.6	791	12.0	7.0	13...	1205	1.1	820	9.0	9.0
MAR , 1980											
27...	1332	1.8	808	9.0	7.0						

SNAKE RIVER MAIN STEM

13011000 - SNAKE RIVER NEAR MORAN, WY (LAT 43 51 31 LONG 110 35 09)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
OCT , 1979						APR , 1980					
10...	1500	229	188	24.0	15.0	17...	1340	443	210	10.0	2.5
NOV						JUN					
20...	1309	215	131	12.0	9.0	18...	1619	4800	159	24.5	11.0
JAN , 1980						AUG					
08...	1444	229	158	-5.0	1.0	15...	1500	1690	148	13.0	14.0
FEB											
20...	1500	237	172	12.5	5.5						

PACIFIC CREEK BASIN

13011500 - PACIFIC CREEK AT MORAN, WY (LAT 43 51 04 LONG 110 30 59)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
OCT , 1979						APR , 1980					
10...	1430	43	277	14.5	9.5	17...	1228	53	196	15.5	6.5
NOV						JUN					
20...	1157	56	171	6.5	1.5	18...	1430	862	118	25.0	12.0
JAN , 1980						AUG					
08...	1329	77	178	5.0	.0	15...	1235	88	144	14.0	13.0
FEB											
20...	1220	58	257	8.0	1.0						

BUFFALO FORK BASIN

13011900 - BUFFALO FORK ABOVE LAVA CREEK NEAR MORAN, WY (LAT 43 50 14 LONG 110 26 21)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
OCT , 1979						APR , 1980					
10...	1100	159	244	11.0	5.0	17...	1020	141	206	7.0	4.5
NOV						JUN					
20...	0915	126	173	-.5	1.5	18...	1024	2160	104	15.0	7.5
JAN , 1980						AUG					
08...	1000	93	128	-8.0	.0	15...	1100	305	157	13.5	10.0
FEB											
20...	0948	123	271	4.5	.5						

SNAKE RIVER MAIN STEM

13018750 - SNAKE RIVER BELOW FLAT CREEK NEAR JACKSON, WY (LAT 43 22 20 LONG 110 44 17)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
OCT , 1979						FEB , 1980					
09...	1449	1350	314	23.5	11.5	19...	1630	1230	300	4.5	5.5
NOV						APR					
19...	1529	1290	222	5.5	5.0	16...	1325	1590	222	17.0	9.0
JAN , 1980						JUN					
07...	1600	958	198	-7.0	.0	19...	1140	11500	175	26.5	12.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
GREYS RIVER BASIN											
13023000 - GREYS RIVER AB RESERVOIR NR ALPINE WY (LAT 43 08 35 LONG 110 58 34)											
OCT , 1979 09...	0900	275	350	4.5	6.0	APR , 1980 15...	1322	282	331	15.5	5.0
NOV 19...	1055	245	339	.0	-.7	JUN 20...	1045	2300	289	20.0	7.0
JAN , 1980 07...	1111	175	172	-7.5	.0	AUG 16...	1347	597	348	18.0	12.0
FEB 19...	1230	193	--	5.5	1.5						
SALT RIVER BASIN											
13027200 - BEAR CANYON NEAR FREEDOM, WYOMING (LAT 42 58 38 LONG 111 11 44)											
OCT , 1979 08...	1755	.40	365	18.0	14.5						
MCCOY CREEK BASIN											
13029500 - MCCOY CR AB RESERVOIR NR ALPINE WY (LAT 43 10 50 LONG 111 06 55)											
OCT , 1979 08...	1520	15	425	22.0	11.5						
INDIAN CREEK BASIN											
13030000 - INDIAN CR AB RESERVOIR NR ALPINE WY (LAT 43 15 35 LONG 111 04 00)											
OCT , 1979 15...	1640	1.5	279	7.0	6.0						
ELK CREEK BASIN											
13030500 - ELK CREEK AB RESERVOIR NR IRWIN ID (LAT 43 19 25 LONG 111 06 40)											
OCT , 1979 15...	1700	44	301	7.0	6.0						
BEAR CREEK BASIN											
13032000 - BEAR CREEK AB RESERVOIR NR IRWIN ID (LAT 43 17 00 LONG 111 13 17)											
OCT , 1979 08...	1300	24	767	11.5	9.5						
SNAKE RIVER MAIN STEM											
13032500 - SNAKE RIVER NEAR IRWIN, IDAHO (LAT 43 21 03 LONG 111 13 06)											
OCT , 1979 08...	1028	3950	317	17.0	14.0	FEB , 1980 18...	1230	1060	370	11.5	2.0
NOV 23...	1233	976	280	6.0	10.5	APR 15...	1020	2280	334	14.5	5.0
JAN , 1980 11...	1349	979	405	-2.5	.5	JUN 20...	1400	17400	313	27.5	10.0
13038000 - DRY BED NEAR RIRIE, ID (LAT 43 38 21 LONG 112 42 55)											
JAN , 1980 19...	1133	98	401	-1.5	1.5	MAY , 1980 27...	1317	2670	207	14.0	8.0
MAR 22...	1256	333	448	11.0	7.0	JUL 29...	1835	403	300	--	16.0
13038380 - DRY BED NEAR LEWISVILLE, ID (LAT 43 42 41 LONG 112 02 19)											
JAN , 1980 19...	1550	14	535	-1.5	3.5	MAY , 1980 27...	1635	578	177	15.5	10.5
MAR 22...	1701	93	507	9.0	7.0	JUL 29...	1143	520	386	28.0	15.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
SNAKE RIVER MAIN STEM--Continued											
13038500 - SNAKE RIVER AT LORENZO, ID (LAT 43 44 06 LONG 111 52 33)											
JAN , 1980						JUN , 1980					
02...	1713	835	493	1.0	2.0	20...	1207	10800	381	27.5	11.5
FEB						AUG					
14...	1700	716	489	2.0	2.5	14...	0820	3620	317	19.0	15.0
APR											
24...	1440	7930	370	--	--						
HENRYS FORK BASIN											
13038900 - TARGHEE CR NR MACKS INN ID (LAT 44 38 50 LONG 111 20 30)											
OCT , 1979						MAY , 1980					
18...	1500	5.6	274	10.5	5.0	21...	1423	92	160	23.0	8.0
13039500 - HENRYS FORK NEAR LAKE, ID (LAT 44 35 42 LONG 111 20 57)											
OCT , 1979						APR , 1980					
18...	1400	8.7	123	15.5	10.5	08...	1435	34	265	4.5	4.5
JAN , 1980						SEP					
03...	1530	16	256	--	--	03...	1445	55	256	20.5	14.5
FEB											
12...	1351	18	351	-2.5	3.0						
13040500 - BIG SPRINGS CREEK AT BIG SPRINGS IDAHO (LAT 44 29 58 LONG 111 15 17)											
OCT , 1979											
18...	1730	182	84	6.0	10.5						
13042500 - HENRYS FORK NEAR ISLAND PARK, ID (LAT 44 24 59 LONG 111 23 41)											
JAN , 1980						MAY , 1980					
04...	1130	124	128	.0	3.0	21...	1755	908	136	29.0	13.5
FEB						SEP					
13...	0956	123	138	.5	3.0	03...	1700	634	156	18.0	14.5
APR											
08...	1828	3.9	174	4.0	6.5						
13046000 - HENRYS FORK NEAR ASHTON, ID (LAT 44 04 30 LONG 111 29 58)											
OCT , 1979						APR , 1980					
19...	1200	961	136	8.0	8.5	09...	1154	775	152	4.0	7.0
JAN , 1980						MAY					
04...	1540	808	297	1.0	3.0	29...	1148	3290	117	15.0	10.5
FEB											
13...	1700	860	147	2.0	1.5						
13047500 - FALLS RIVER NEAR SQUIRREL, ID (LAT 44 04 07 LONG 111 14 25)											
OCT , 1979						APR , 1980					
01...	1245	374	127	25.0	12.5	09...	1508	347	217	4.5	6.0
FEB , 1980						MAY					
13...	1349	355	207	4.5	2.0	22...	1400	2450	71	22.0	10.0
13049500 - FALLS RIVER NEAR CHESTER, ID (LAT 44 01 06 LONG 111 33 57)											
OCT , 1979						APR , 1980					
01...	1530	172	160	28.0	12.0	14...	1615	424	214	15.0	13.0
MAR , 1980						MAY					
21...	1110	408	214	5.0	3.7	30...	1657	2060	88	19.0	10.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
HENRYS FORK BASIN--Continued											
13050800 - MOOSE CREEK NEAR VICTOR, IDAHO (LAT 43 33 48 LONG 111 04 08)											
OCT , 1979 15...	1440	28	261	7.0	5.5						
13052200 - TETON RIVER ABOVE LEIGH CREEK NEAR DRIGGS, ID (LAT 43 46 54 LONG 111 12 30)											
OCT , 1979 11...	1440	254	440	24.5	10.5	APR , 1980 18...	1020	313	300	17.0	7.5
NOV 21...	1135	209	249	.0	12.0	JUN 17...	1130	706	383	23.0	12.0
JAN , 1980 09...	1140	169	286	.5	.5	AUG 14...	1310	304	349	15.0	14.0
FEB 21...	1054	289	355	3.0	3.0	SEP 30...	1300	281	473	22.0	11.5
13054300 - BITCH CREEK NR LAMONT ID (LAT 43 56 17 LONG 111 10 43)											
OCT , 1979 11...	1227	31	204	23.0	9.0						
13055198 - NORTH FORK TETON RIVER AT TETON, ID (LAT 43 53 53 LONG 111 40 38)											
OCT , 1979 04...	1230	156	221	23.0	12.5	APR , 1980 10...	1520	64	332	12.0	7.0
FEB , 1980 11...	1700	58	307	.0	.5	MAY 28...	1600	619	247	20.5	11.0
SNAKE RIVER MAIN STEM											
13057150 - SNAKE RIVER NEAR LEWISVILLE, ID (LAT 43 37 35 LONG 112 03 56)											
JAN , 1980 10...	1350	3550	350	-4.0	.5	JUN , 1980 17...	1220	17100	287	19.5	13.0
MAR 07...	1350	2870	325	4.0	5.0	AUG 27...	1515	3420	284	23.0	17.0
APR 22...	1230	5480	352	--	--						
WILLOW CREEK BASIN											
13057600 - HOMER CREEK NEAR HERMAN, IDAHO (LAT 43 11 35 LONG 111 37 20)											
OCT , 1979 23...	1140	.39	370	16.0	6.0						
SNAKE RIVER MAIN STEM											
13062500 - SNAKE RIVER AT BLACKFOOT ID (LAT 43 11 50 LONG 112 22 05)											
MAR , 1980 03...	1415	2650	312	12.5	5.0	JUN , 1980 19...	0925	10200	290	21.0	15.0
APR 18...	1415	2770	408	26.5	13.0						
BLACKFOOT RIVER BASIN											
13062700 - ANGUS CREEK NEAR HENRY, ID (LAT 42 49 43 LONG 111 20 18)											
OCT , 1979 23...	1525	1.1	357	16.0	8.0	MAY , 1980 14...	1643	28	191	12.5	13.0
13065940 - WOLVERINE CR NR GOSHEN ID (LAT 43 15 02 LONG 112 00 59)											
JAN , 1980 14...	1410	7.6	568	9.0	10.0	APR , 1980 29...	1500	20	499	25.0	15.0
MAR 06...	1434	7.4	580	8.5	13.0	JUN 19...	1300	22	482	25.5	19.5

BLACKFOOT RIVER BASIN--Continued

13065950 - BLACKFOOT RIVER TRIB NR GOSHEN, IDAHO (LAT 43 15 30 LONG 112 02 07)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
JAN , 1980											
14...	1335	.64	189	8.0	1.0						

13066000 - BLACKFOOT RIVER NEAR SHELLEY, IDAHO (LAT 43 16 00 LONG 112 03 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
NOV , 1979						JUN , 1980					
28...	1130	66	196	-8.0	.0	19...	1515	484	405	30.0	21.0
MAR , 1980						24...	1201	826	419	25.5	15.5
06...	1305	80	--	6.0	5.0						
APR											
29...	1340	208	386	22.0	13.5						

13068495 - BLACKFOOT RIVER BY-PASS NR BLACKFOOT, IDAHO (LAT 43 10 16 LONG 112 23 13)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
JAN , 1980						JUN , 1980					
14...	1345	89	208	2.0	0.0	24...	1410	--	370	30.0	17.5
MAR											
03...	1550	8.3	568	6.0	6.0						

SNAKE RIVER MAIN STEM

13069500 - SNAKE RIVER NEAR BLACKFOOT, ID (LAT 43 07 31 LONG 112 31 06)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979						MAR , 1980					
09...	1310	466	435	22.5	12.5	04...	1255	2500	343	25.0	7.0
NOV						MAY					
21...	1425	1950	337	9.0	2.0	01...	1341	11100	305	28.0	11.0
JAN , 1980						AUG					
14...	1620	3520	315	8.0	1.5	28...	1345	405	550	24.5	17.0

PORTNEUF RIVER BASIN

13072890 - DEMPSEY CREEK NEAR LAVA HOT SPRINGS, ID (LAT 42 36 28 LONG 112 01 15)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979						MAY , 1980					
24...	1605	7.1	452	21.0	10.0	16...	0720	36	303	6.0	7.0
MAR , 1980											
24...	1730	5.8	414	.0	3.0						

13073120 - PORTNEUF MARSH VALLEY CANAL MCCAMMON,IDAHO (LAT 42 36 53 LONG 112 09 56)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
JUN , 1980						AUG , 1980					
04...	0800	39	456	6.0	10.0	12...	0845	134	648	21.0	17.0
25...	0915	127	615	22.0	15.0	SEP					
JUL						19...	0850	85	782	14.0	15.0
14...	0815	143	623	19.5	17.0						

13073700 - ROBBERS ROOST CREEK NEAR MCCAMMON, IDAHO (LAT 42 42 20 LONG 112 12 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979											
24...	1655	.25	360	17.0	9.5						

13073730 - LEFT HAND FORK MARSH CREEK NR DOWNEY IDAHO (LAT 42 24 15 LONG 112 01 34)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
APR , 1980						JUL , 1980					
16...	1330	8.0	237	18.5	11.0	12...	1230	4.0	420	26.0	13.0

13073735 - RIGHT HAND FORK MARSH CREEK NR DOWNEY IDAHO (LAT 42 24 12 LONG 112 01 34)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
APR , 1980						JUL , 1980					
16...	1230	9.3	149	18.0	9.5	12...	1120	2.0	309	27.0	15.0

PORTNEUF RIVER BASIN--Continued

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
13073743 - MARSH CREEK AT RED ROCK PASS NR DOWNEY ID (LAT 42 21 23 LONG 112 07 35)					
OCT , 1979					
30...	1440	1.8	516	8.5	5.0
DEC					
17...	0930	1.8	443	-.5	.0
FEB , 1980					
13...	0920	1.5	491	.5	.0
APR					
16...	1030	21	241	17.0	6.0
JUN					
03...	0930	25	346	9.5	6.5
JUN , 1980					
24...	0830	14	388	14.0	8.0
JUL					
12...	1410	.94	400	27.0	18.0
AUG					
11...	1230	4.4	464	29.0	15.0
SEP					
18...	0800	2.8	495	20.0	9.5
13073745 - DOWNATA HOT SPRING NR DOWNEY IDAHO (LAT 42 23 36 LONG 112 05 35)					
JUL , 1980					
12...	1545	.91	433	29.5	37.0
13073746 - DOWNATA SPRINGS NR DOWNEY IDAHO (LAT 42 23 50 LONG 112 35 06)					
JUL , 1980					
12...	1650	3.1	619	30.0	22.0
13073748 - ASPEN CREEK AT MOUTH NR VIRGINIA IDAHO (LAT 42 24 26 LONG 112 09 20)					
APR , 1980					
16...	1635	.07	372	20.0	19.0
13073750 - MARSH CR AT HWY 191 CROSSING NR DOWNEY IDAHO (LAT 42 24 20 LONG 112 09 20)					
OCT , 1979					
30...	1620	8.6	695	7.0	6.5
DEC					
17...	1100	9.6	616	3.0	.0
JAN , 1980					
16...	1410	88	194	5.0	1.5
FEB					
13...	1055	12	761	2.0	4.0
21...	1300	83	364	3.5	2.0
APR					
16...	1530	25	536	20.0	16.5
JUN , 1980					
03...	1145	50	537	9.0	11.0
24...	1030	21	564	19.0	20.0
JUL					
13...	0905	8.9	652	24.0	19.5
AUG					
11...	1400	5.4	702	31.0	22.5
SEP					
18...	1030	14	735	27.0	15.0
13074779 - BIRCH CR BELOW CHERRY CR NR DOWNEY IDAHO (LAT 42 24 59 LONG 112 12 23)					
FEB , 1980					
21...	1045	12	496	1.5	4.0
APR					
19...	0900	15	410	16.0	7.5
JUL , 1980					
13...	1050	3.1	635	24.5	16.0
13074810 - MARSH CR AB HAWKINS CR NR VIRGINIA ID (LAT 42 30 20 LONG 112 11 30)					
OCT , 1979					
31...	0930	14	781	4.0	1.5
DEC					
17...	1300	15	776	6.5	.0
JAN , 1980					
15...	1715	320	209	4.0	1.0
FEB					
13...	1300	30	912	4.0	.0
21...	1515	198	388	2.5	1.5
APR					
17...	1210	42	713	19.5	12.0
JUN , 1980					
03...	1500	103	693	19.0	12.0
24...	1340	53	642	24.0	19.0
JUL					
13...	1200	13	744	26.0	20.0
AUG					
11...	1500	5.8	927	34.0	22.5
SEP					
18...	1245	21	798	27.5	15.5

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
PORTNEUF RIVER BASIN--Continued											
13074814 - PECK CREEK NEAR VIRGINIA IDAHO (LAT 42 30 18 LONG 112 08 27)											
APR , 1980 19...	1515	8.3	818	24.0	17.0	JUL , 1980 13...	1400	3.5	822	29.0	18.5
13074820 - HAWKINS CR AT VIRGINIA RD CROSS NR VIRGINIA ID (LAT 42 30 37 LONG 112 13 33)											
FEB , 1980 21...	0930	47	328	4.0	2.0	APR , 1980 17...	1545	15	547	23.0	12.0
13074900 - MARSH CR AB ARKANSAS CR NR ARIMO IDAHO (LAT 42 32 25 LONG 112 10 39)											
JUL , 1980 14...	1045	24	836	27.5	16.5						
13074950 - GARDEN CREEK NR ROBIN IDAHO (LAT 42 34 34 LONG 112 13 25)											
FEB , 1980 20...	1650	83	162	5.0	3.0	APR , 1980 17...	1645	18	383	22.0	11.0
13074975 - LOST CREEK NR ROBIN IDAHO (LAT 42 36 28 LONG 112 14 18)											
FEB , 1980 20...	1545	58	152	6.5	4.5						
13074995 - UNNAMED CR BELOW COTTONWOOD CR NR MCCAMMON IDAHO (LAT 42 37 37 LONG 112 14 20)											
FEB , 1980 20...	1500	6.8	114	6.5	2.0						
13075003 - GOODENOUGH CREEK NR MCCAMMON IDAHO (LAT 42 38 36 LONG 112 13 49)											
FEB , 1980 20...	1415	20	97	7.5	2.5	APR , 1980 19...	1110	9.8	106	17.5	11.0
13075007 - UNNAMED WASH AT GREEN ROAD NR MCCAMMON IDAHO (LAT 42 39 27 LONG 112 13 54)											
FEB , 1980 20...	1335	3.6	71	7.5	2.0						
13075008 - UNNAMED WASH NR MERRILL RD NR MCCAMMON IDAHO (LAT 42 39 35 LONG 112 13 56)											
FEB , 1980 20...	1315	.90	85	7.5	2.5						
13075009 - UNNAMED CREEK AT MERRILL ROAD NR MCCAMMON IDAHO (LAT 42 39 40 LONG 112 13 59)											
FEB , 1980 20...	1245	8.1	67	7.0	1.0						
13075020 - BELL MARSH CREEK NEAR MCCAMMON IDAHO (LAT 42 41 15 LONG 112 13 44)											
APR , 1980 19...	1215	10	167	19.0	9.5						
13075035 - WALKER CREEK NEAR INKOM IDAHO (LAT 42 43 26 LONG 112 14 16)											
APR , 1980 19...	1320	7.5	221	17.5	11.5						

PORTNEUF RIVER BASIN--Continued

13075050 - MARSH CREEK AB MOUTH NR INKOM ID (LAT 42 46 00 LONG 112 13 54)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
31...	1345	87	788	7.0	8.0
DEC					
18...	0900	80	795	-6.0	1.5
FEB , 1980					
14...	1430	109	779	6.5	3.0
APR					
17...	0850	141	621	15.5	9.0
JUN					
02...	1200	329	645	18.0	13.0
JUN , 1980					
25...	1145	129	608	25.0	18.0
JUL					
12...	1100	89	672	27.0	20.0
14...	1310	80	656	24.0	20.0
AUG					
12...	1145	55	704	28.0	18.0
SEP					
19...	1115	102	775	21.0	14.0

13075090 - INMAN CREEK NEAR INKOM, IDAHO (LAT 42 49 15 LONG 112 12 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
25...	1635	1.3	332	18.0	11.0
MAR , 1980					
24...	1210	3.2	270	4.0	3.5
MAY , 1980					
15...	1045	40	1146	11.5	6.5

13075300 - E FK MINK CREEK NR POCATELLO ID (LAT 42 44 20 LONG 112 23 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
25...	1515	.90	471	23.0	11.0

13075600 - N FK POCATELLO CREEK NR POCATELLO ID (LAT 42 53 10 LONG 112 23 45)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
25...	1805	.87	818	15.0	10.0

ROCK CREEK BASIN

13077088 - SOUTH FORK ROCK CREEK BELOW KURTZ SPR NR ROY, ID (LAT 42 18 12 LONG 112 49 48)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
14...	1530	<.01	--	--	--
NOV					
14...	0930	<.01	--	--	--
DEC , 1979					
12...	1140	<.01	--	--	--
JAN , 1980					
16...	0940	.14	472	.5	.0

13077090 - SOUTH FORK ROCK CR BL HOLLOWAY CANYON NR ROY, ID (LAT 42 18 39 LONG 112 49 31)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
14...	1540	.07	960	21.5	15.0
NOV					
14...	0945	.06	969	11.5	.0
DEC , 1979					
12...	1145	<.01	--	--	--
JAN , 1980					
16...	0950	1.1	554	2.0	.5

13077100 - TRAIL CANYON C AT ROY ID (LAT 42 21 52 LONG 112 49 48)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
14...	1600	<.01	--	--	--
NOV					
14...	1030	<.01	--	--	--
DEC , 1979					
12...	1155	<.01	--	--	--
JAN , 1980					
15...	1650	22	103	2.5	.0

13077200 - SOUTH FORK ROCK CREEK NEAR ROY, ID (LAT 42 24 07 LONG 112 49 34)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
14...	1615	<.01	--	--	--
NOV					
14...	1045	<.01	--	--	--
DEC , 1979					
12...	1200	<.01	--	--	--
JAN , 1980					
15...	1600	161	126	5.0	2.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

ROCK CREEK BASIN--Continued

13077340 - HARTLEY CANYON CREEK NEAR ROCKLAND, ID (LAT 42 25 04 LONG 112 52 03)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979						DEC , 1979					
14...	1415	<.01	--	--	--	13...	0925	<.01	--	--	--
NOV						JAN , 1980					
14...	1145	<.01	--	--	--	14...	1618	E40	112	.0	.0

13077370 - PORTAGE CANYON CREEK NEAR ROCKLAND, ID (LAT 42 28 44 LONG 112 48 06)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979						DEC , 1979					
14...	1035	.16	513	13.0	11.5	11...	1540	.14	518	-1.5	.0
NOV						JAN , 1980					
14...	1245	.16	513	21.0	7.0	16...	1135	.09	558	4.5	3.5

13077480 - TRIBUTARY TO SAND HOLLOW NEAR ROCKLAND, ID (LAT 42 32 09 LONG 112 49 14)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979						DEC , 1979					
15...	1250	.10	1010	18.0	9.0	11...	1630	<.01	--	--	--
NOV						JAN , 1980					
14...	1310	.19	995	18.5	.0	16...	1600	.72	418	2.0	5.0

13077490 - SAND HOLLOW CREEK NEAR ROCKLAND, ID (LAT 42 31 29 LONG 112 50 59)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979						DEC , 1979					
15...	1325	<.01	--	--	--	11...	1655	<.01	--	--	--
NOV						JAN , 1980					
14...	1300	<.01	--	--	--	16...	1510	1.8	617	4.0	.0

13077540 - WARMS SPRINGS CREEK NEAR ROCKLAND, ID (LAT 42 32 43 LONG 112 53 58)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979						DEC , 1979					
15...	1110	<.01	--	--	--	12...	1320	<.01	--	--	--
NOV						JAN , 1980					
14...	1420	<.01	--	--	--	16...	1400	.08	375	3.5	2.5

RAFT RIVER BASIN

13077659 - RAFT RIVER NEAR YOST, UTAH (LAT 41 56 50 LONG 113 42 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
07...	1022	3.2	565	21.5	9.0

13078205 - RAFT RIVER BELOW ONE MILE CREEK NEAR MALTA, ID (LAT 42 04 13 LONG 113 26 37)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
NOV , 1979						MAR , 1980					
08...	1420	7.3	1310	9.0	7.0	28...	0945	13	1270	9.0	7.5
DEC						MAY					
12...	1435	12	1080	3.5	2.0	22...	1215	52	803	28.0	18.0
JAN , 1980						SEP					
17...	1140	44	919	.5	4.5	15...	1500	9.1	1328	26.5	18.5

SNAKE RIVER MAIN STEM

13081500 - SNAKE R NR MINIDOKA ID (AT HOWELLS FERRY) (LAT 42 40 23 LONG 113 29 58)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
FEB , 1980						MAY , 1980					
28...	1110	641	538	9.0	4.5	30...	0954	21100	393	19.0	13.0
APR											
23...	1038	5520	428	20.0	12.5						

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
GOOSE CREEK BASIN											
13084400 - BIRCH CREEK ABOVE FEEDER CANAL NEAR OAKLEY, ID (LAT 42 10 40 LONG 113 49 10)											
OCT , 1979 07...	1600	1.4	404	17.5	10.0	SEP , 1980 12...	2000	3.3	362	16.0	15.0
MAY , 1980 22...	1010	24	213	21.0	11.5						
SNAKE RIVER MAIN STEM											
13088000 - SNAKE RIVER AT MILNER, IDAHO (LAT 42 31 41 LONG 114 01 04)											
OCT , 1979 24...	1500	254	563	27.0	10.0	MAY , 1980 29...	1528	12900	416	17.5	13.0
DEC 19...	1353	555	745	11.0	2.0	JUL 30...	0850	320	549	28.0	23.0
FEB , 1980 27...	1330	750	582	20.0	4.0	AUG 26...	1100	269	381	22.0	19.0
13088020 - TWIN FALLS MAIN CANAL NR HANSEN IDAHO (LAT 42 31 07 LONG 114 16 31)											
NOV , 1979 02...	0900	634	508	3.5	5.0	JUL , 1980 10...	0820	4080	400	22.5	19.0
APR , 1980 20...	1255	1940	478	27.0	12.0	AUG 13...	1615	3870	392	31.0	21.5
MAY 13...	1620	3510	443	21.0	14.0	SEP 17...	1045	2160	398	27.5	16.0
JUN 26...	1045	3540	400	21.5	18.5						
ROCK CREEK BASIN											
13092000 - ROCK CREEK NEAR ROCK CREEK, IDAHO (LAT 42 21 23 LONG 114 18 12)											
NOV , 1979 01...	1415	10	180	5.5	5.0	JUN , 1980 26...	1310	46	118	24.5	14.5
DEC 18...	1430	13	180	13.0	4.5	JUL 09...	1600	23	140	32.0	19.0
FEB , 1980 11...	1145	13	157	2.0	2.0	AUG 14...	1200	12	199	27.5	17.0
APR 22...	0845	203	79	18.0	6.5	SEP 17...	1315	11	282	28.5	15.0
MAY 14...	1420	142	86	22.5	10.0						
13092050 - ROCK CREEK AT ROCK CREEK IDAHO (LAT 42 25 36 LONG 114 17 43)											
MAY , 1980 14...	0915	91	91	11.0	7.0	JUL , 1980 09...	1045	7.1	160	28.0	17.0
13092094 - INFLOW ABOVE 3600 EAST RD NR ROCK CREEK IDAHO (LAT 42 27 20 LONG 114 20 35)											
JUL , 1980 09...	1515	1.7	649	32.0	24.0						
13092095 - ROCK CR AT 3600 EAST RD NR ROCK CREEK IDAHO (LAT 42 27 21 LONG 114 20 36)											
MAY , 1980 14...	1115	81	168	16.0	10.0	JUL , 1980 09...	1345	5.2	858	32.0	22.5
13092105 - ROCK CREEK AT 3500 EAST RD NR ROCK CREEK IDAHO (LAT 42 27 17 LONG 114 21 52)											
MAY , 1980 14...	1330	91	232	17.0	14.0	JUL , 1980 09...	1610	8.5	711	30.5	22.5

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
ROCK CREEK BASIN--Continued											
13092552 - COTTONWOOD CR BEL MCMULLEN CR NR ROCK CREEK IDA (LAT 42 26 55 LONG 114 21 17)											
JUL , 1980											
10...	1115	12	731	25.5	15.5						
13092620 - ROCK CR BELOW COTTONWOOD CR NR ROCK CREEK IDAHO (LAT 42 28 13 LONG 114 22 34)											
MAY , 1980						JUL , 1980					
14...	1600	111	323	19.0	15.5	10...	1430	16	720	26.0	22.0
13092703 - INFLOW AB ROCK CR AT 3400 NORTH RD NR TWIN FALLS (LAT 42 29 15 LONG 114 23 54)											
JUL , 1980											
10...	1715	7.9	767	26.0	14.0						
13092704 - ROCK CR AT 3400 NORTH RD NR TWIN FALLS IDAHO (LAT 42 29 17 LONG 114 23 58)											
MAY , 1980						JUL , 1980					
14...	1750	120	351	18.5	16.0	10...	1600	26	696	26.0	24.0
13092710 - ROCK CREEK AT 12 MILE NR TWINFALLS ID (LAT 42 31 21 LONG 114 25 12)											
NOV , 1979						JUN , 1980					
01...	1600	52	717	8.0	9.0	26...	1440	70	631	28.5	20.0
DEC						JUL					
19...	1530	32	674	8.5	5.0	10...	1050	51	696	27.0	17.0
FEB , 1980						AUG					
11...	1435	26	626	7.0	6.0	14...	1400	61	736	29.0	19.0
MAY						SEP					
15...	0845	147	383	11.0	10.0	17...	0850	83	756	18.0	12.0
13092713 - H COULEE AT END HILLCREST RD NR TWIN FALLS ID (LAT 42 31 37 LONG 114 26 48)											
MAY , 1980						JUL , 1980					
15...	0900	10	462	9.5	12.1	11...	0830	11	432	20.0	15.0
13092735 - THORP TUNNEL NEAR TWIN FALLS IDAHO (LAT 42 33 36 LONG 114 29 35)											
MAY , 1980											
15...	1410	1.5	958	15.5	12.0						
13092742 - K 1 COULEE NEAR TWIN FALLS IDAHO (LAT 42 33 36 LONG 114 29 41)											
MAY , 1980						JUL , 1980					
15...	1400	11	659	15.5	14.0	11...	1030	19	778	23.5	14.0
13092747 - ROCK CR ABOVE HWY 93 CROSSING AT TWIN FALLS ID (LAT 42 33 45 LONG 114 29 38)											
NOV , 1979						JUN , 1980					
02...	1315	129	815	12.0	11.0	26...	1615	140	686	22.5	19.0
DEC						JUL					
19...	1345	84	819	11.5	8.5	10...	1350	118	734	28.0	18.5
FEB , 1980						AUG					
11...	1630	57	773	4.5	8.5	14...	1515	160	772	31.0	18.0
APR						SEP					
21...	0930	218	322	15.0	11.0	16...	1630	205	783	26.0	15.5
MAY											
15...	1315	227	495	14.0	13.0						

ROCK CREEK BASIN--Continued

13092752 - ORCHALARA SEEPAGE TUNNEL (LAT 42 34 05 LONG 114 29 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
MAY , 1980						JUL , 1980					
15...	1700	3.5	1040	17.5	14.0	11...	1345	6.2	1100	25.0	16.0

13092754 - DEADMAN GULCH AT TWIN FALLS, ID (LAT 42 33 54 LONG 114 30 05)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
MAY , 1980						JUL , 1980					
16...	0850	29	662	8.5	11.0	11...	1145	24	718	27.0	16.5

13092830 - O 1 COULEE NEAR TWIN FALLS IDAHO (LAT 42 34 04 LONG 114 30 14)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
MAY , 1980						JUL , 1980					
16...	1000	10	561	10.0	11.5	11...	1530	11	545	30.0	24.0

13092835 - L P 1 COULEE NEAR TWIN FALLS IDAHO (LAT 42 34 48 LONG 114 31 23)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
MAY , 1980					
16...	1040	11	496	13.0	11.5

13092850 - L P COULEE NR TWIN FALLS IDAHO (LAT 42 34 51 LONG 114 32 01)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
MAY , 1980						JUL , 1980					
16...	1220	5.7	649	10.0	12.5	11...	1005	7.5	620	23.5	15.5

13093040 - L Q 2 COULEE NR TWIN FALLS IDAHO (LAT 42 37 07 LONG 114 32 03)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
MAY , 1980						JUL , 1980					
16...	1130	4.2	483	8.5	11.5	11...	0850	6.1	487	20.0	15.5

CEDAR DRAW BASIN

13093475 - CEDAR DRAW BL LOW LINE CANAL NR FILER IDAHO (LAT 42 32 38 LONG 114 36 45)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)	DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
NOV , 1979						JUL , 1980					
09...	0900	.25	579	5.0	4.0	08...	1300	1.0	411	28.5	20.5
APR , 1980						AUG					
22...	1130	50	392	21.5	12.5	15...	0830	.09	593	19.5	17.5
MAY						SEP					
12...	1315	131	440	20.0	12.0	16...	1500	63	405	26.0	16.5
JUN											
27...	0915	1.1	412	12.0	13.5						

13093478 - CEDAR DRAW AT CLOVER ROAD NEAR FILER IDAHO (LAT 42 33 50 LONG 114 37 24)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
JUL , 1980					
08...	1540	5.5	524	30.5	24.0

13093481 - UNNAMED DRAIN AT REST AREA NR FILER ID (LAT 42 34 02 LONG 114 37 42)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
JUL , 1980					
08...	1410	4.3	481	30.0	21.5

13093484 - UNNAMED DRAIN NW SEC 7 SITE 38 (LAT 42 34 42 LONG 114 37 50)

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE, WATER (DEG C)
JUL , 1980					
08...	1250	1.0	544	30.0	20.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

CEDAR DRAW BASIN--Continued

13093488 - HYPOTHEEK SEEPAGE TUNNEL NR FILER IDAHO (LAT 42 34 56 LONG 114 37 34)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
MAY , 1980						JUL , 1980					
12...	1700	2.3	983	18.5	12.5	08...	1910	4.0	993	22.0	13.0

13093492 - VINING SEEPAGE TUNNEL NR FILER IDAHO (LAT 42 35 20 LONG 114 37 38)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
JUL , 1980					
08...	1800	.48	1017	26.0	12.0

13093493 - UNNAMED DRAIN NE SEC 1 SITE 4C (LAT 42 35 36 LONG 114 37 58)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
JUL , 1980					
08...	1650	1.6	881	29.0	21.0

13093494 - CEDAR DRAW AT OLD HWY 30 NR FILER IDAHO (LAT 42 35 37 LONG 114 37 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
JUL , 1980					
08...	1530	33	733	28.0	19.0

13093495 - UNNAMED DRAIN IN SW SEC 36 SITE 4B (LAT 42 35 58 LONG 114 38 05)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
JUL , 1980					
08...	1400	1.3	733	--	20.5

13093497 - E COULEE AT MOUTH NR FILER IDAHO (LAT 42 36 29 LONG 114 38 37)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
MAY , 1980						JUL , 1980					
13...	0830	21	668	15.5	11.0	08...	1040	23	765	22.0	16.0

13093499 - INFLOW AT CEDAR DRAW NR FILER IDA (LAT 42 37 20 LONG 114 39 11)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
JUL , 1980					
07...	1440	1.5	732	32.0	21.0

13093500 - CEDAR DRAW NEAR FILER, IDAHO (LAT 42 37 25 LONG 114 39 12)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
NOV , 1979						JUN , 1980					
08...	1525	50	974	12.0	11.5	27...	1045	65	665	17.0	13.0
DEC						JUL					
20...	1015	39	840	7.0	9.5	07...	1315	63	733	32.0	21.0
FEB , 1980						08...	0800	64	716	19.5	15.0
12...	0945	30	993	-1.5	7.0	AUG					
APR						15...	0930	69	787	19.0	15.0
22...	1430	73	576	22.0	15.5	SEP					
MAY						15...	1415	234	560	25.0	17.0
12...	0835	192	516	10.0	10.5						
12...	1520	185	535	22.0	15.0						
13...	0915	226	506	12.5	11.5						

13093510 - L F COULEE NR MOUTH NR FILER IDAHO (LAT 42 37 22 LONG 114 39 47)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
MAY , 1980						JUL , 1980					
12...	1645	23	623	15.5	17.0	08...	0845	24	628	20.5	16.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

CEDAR DRAW BASIN--Continued

13093530 - CEDAR DRAW ABOVE MOUTH NEAR FILER, IDAHO (LAT 42 38 57 LONG 114 39 33)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
NOV , 1979						JUN , 1980					
09...	1045	70	867	7.0	7.5	27...	1200	99	664	20.0	13.5
DEC						JUL					
20...	1415	55	874	10.5	9.0	07...	1400	83	722	29.5	17.0
FEB , 1980						08...	1000	92	686	25.5	16.0
12...	1145	37	986	3.5	5.5	AUG					
APR						15...	1040	101	763	21.0	18.0
22...	1545	96	512	22.5	16.0	SEP					
MAY						15...	1600	280	597	23.5	17.0
12...	1025	284	504	12.0	11.5						
12...	1700	277	556	24.0	15.5						
13...	1335	318	536	20.0	15.0						

SNAKE RIVER MAIN STEM

13094000 - SNAKE RIVER NEAR BUHL, IDAHO (LAT 42 39 58 LONG 114 42 41)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
DEC , 1979						MAY , 1980					
11...	1350	2170	805	2.0	2.5	21...	1205	9340	504	28.0	17.0
JAN , 1980						JUL					
15...	1140	2560	621	8.0	9.0	27...	1154	2380	565	18.5	18.0
MAR						SEP					
26...	1335	2410	621	16.0	10.0	16...	1300	2890	603	17.0	15.5

SALMON FALLS CREEK BASIN

13104800 - SHOSHONE CREEK AT MOUTH NR SAN JACINTO NV (LAT 41 56 36 LONG 114 41 02)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
12...	1115	17	--	18.0	13.0

13106000 - SALMON RIVER CANAL CO CANAL NR ROGERSON IDAHO (LAT 42 13 10 LONG 114 44 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
MAY , 1980					
19...	1530	194	197	26.5	11.0

MUD LAKE-LOST RIVER BASINS

13114000 - BEAVER CREEK NEAR CAMAS IDAHO (LAT 44 00 27 LONG 112 13 25)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
APR , 1980						JUN , 1980					
23...	1310	145	300	14.0	5.0	09...	1229	111	214	23.0	16.0

13117200 - MAIN FORK NEAR GOLDBURG, IDAHO (LAT 44 24 06 LONG 113 24 18)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
06...	1635	6.4	48	8.0	6.0

13119800 - N FK BIG LOST RIVER NR CHILLY, IDAHO (LAT 43 55 35 LONG 114 11 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
06...	1045	8.7	234	14.0	5.5

13120000 - N FK BIG LOST RIVER AT WILD HORSE NR CHILLY ID (LAT 43 55 59 LONG 114 06 47)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)	DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979						MAY , 1980					
16...	1000	29	222	-1.0	4.0	17...	1230	208	176	7.0	6.0
DEC						JUL					
05...	1400	20	222	.0	4.0	10...	1725	347	137	18.5	12.5
JAN , 1980						SEP					
16...	1424	21	232	-7.0	.5	11...	1636	74	184	11.5	8.0
MAR											
24...	1436	19	172	-1.5	7.0						

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

MUD LAKE-LOST RIVER BASINS--Continued

13120240 - E F B LOST R AT ROSENKANCE RA NR CHILLY ID (LAT 43 53 45 LONG 113 59 00)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
06...	1224	40	120	17.0	8.0

13120500 - BIG LOST RIVER AT HOWELL RANCH NR CHILLY ID (LAT 43 59 54 LONG 114 01 12)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
16...	1148	95	194	5.5	5.5
DEC					
06...	0948	91	179	3.5	.5
JAN , 1980					
16...	1500	81	203	-5.0	.5
MAR					
24...	1336	61	173	-.5	4.0
MAY , 1980					
17...	1430	601	141	7.5	7.0
JUL					
10...	1940	1090	98	19.5	14.0
SEP					
11...	1805	251	147	11.5	8.5

13128900 - LOWER CEDAR CR AB DIVERSIONS NR MACKAY IDAHO (LAT 43 57 57 LONG 113 34 40)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
11...	1254	8.6	234	13.0	7.5
DEC					
05...	0900	7.6	234	-5.5	1.5
MAY , 1980					
20...	1045	40	218	10.5	6.0
JUL , 1980					
10...	1430	68	163	22.5	5.5
SEP					
11...	1053	20	214	8.5	6.0

13131500 - PASS C NR LESLIE, IDAHO (LAT 43 56 05 LONG 113 26 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
06...	1448	4.5	299	21.5	7.5

SNAKE RIVER MAIN STEM

13135000 - SNAKE RIVER BL LOWER SALMON FALLS NR HAGERMAN,ID (LAT 42 50 55 LONG 114 54 02)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
NOV , 1979					
09...	1210	6450	420	8.0	11.5
JAN , 1980					
24...	1500	7350	515	5.0	9.0
MAR					
25...	1210	6600	504	12.5	11.5
JUL , 1980					
26...	0930	5580	450	--	18.5
SEP					
15...	1200	7340	446	24.5	16.0

BIG WOOD RIVER BASIN

13135200 - PRAIRIE CREEK NEAR KETCHUM, IDAHO (LAT 43 49 00 LONG 114 35 50)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
06...	0852	9.4	132	3.0	4.0

13137000 - WARM SPR CREEK AT GUYER HOT SPR NR KETCHUM ID (LAT 43 40 58 LONG 114 24 24)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
05...	1746	25	227	15.5	13.5

13139500 - BIG WOOD RIVER AT HAILEY, IDAHO (LAT 43 31 05 LONG 114 19 10)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
18...	1400	145	283	6.5	8.5
DEC					
12...	1424	110	312	-3.0	2.5
JAN , 1980					
17...	1542	156	276	-.5	3.5
MAR					
19...	1230	154	304	.5	6.5
MAY , 1980					
14...	1030	1290	174	8.5	6.0
JUL					
09...	0855	1500	179	15.0	9.0
SEP					
12...	0830	337	270	7.0	9.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

BIG WOOD RIVER BASIN--Continued

13142500 - BIG WOOD RIVER BELOW MAGIC DAM NR RICHFIELD, ID (LAT 43 15 00 LONG 114 21 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
17...	1436	441	369	10.0	10.5
DEC					
11...	1418	2.0	296	-3.0	4.5
MAR , 1980					
21...	0936	3.7	265	-.5	7.0
MAY					
15...	0945	672	228	8.5	9.5
JUL					
10...	0930	1020	192	23.0	13.0
SEP					
11...	1500	671	225	22.5	16.0

13147900 - LITTLE WOOD RIVER AB HI FIVE CREEK NR CAREY ID (LAT 43 29 30 LONG 114 03 30)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
12...	1330	30	299	11.0	11.5
DEC					
07...	1018	50	238	-.5	1.5
MAY , 1980					
19...	1215	482	193	14.5	9.5
JUL					
10...	1300	325	166	21.5	13.0
SEP					
08...	1235	72	270	18.0	14.5

13152850 - BIG WOOD RIVER AT UPPER MALAD DAM NR HAGERMAN ID (LAT 42 51 57 LONG 114 52 05)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
FEB , 1980					
15...	1015	--	357	5.0	12.5
MAR					
28...	0930	--	338	2.0	14.0
MAY					
23...	0930	--	328	12.0	15.0
AUG					
20...	1155	8.0	15	21.5	--

CLOVER CREEK BASIN

13154000 - CLOVER CREEK NEAR BLISS, IDAHO (LAT 43 01 30 LONG 115 00 20)

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE, WATER (DEG C)
OCT , 1979					
05...	1428	2.0	444	23.5	14.0
JAN , 1980					
18...	1330	120	120	-.5	3.5

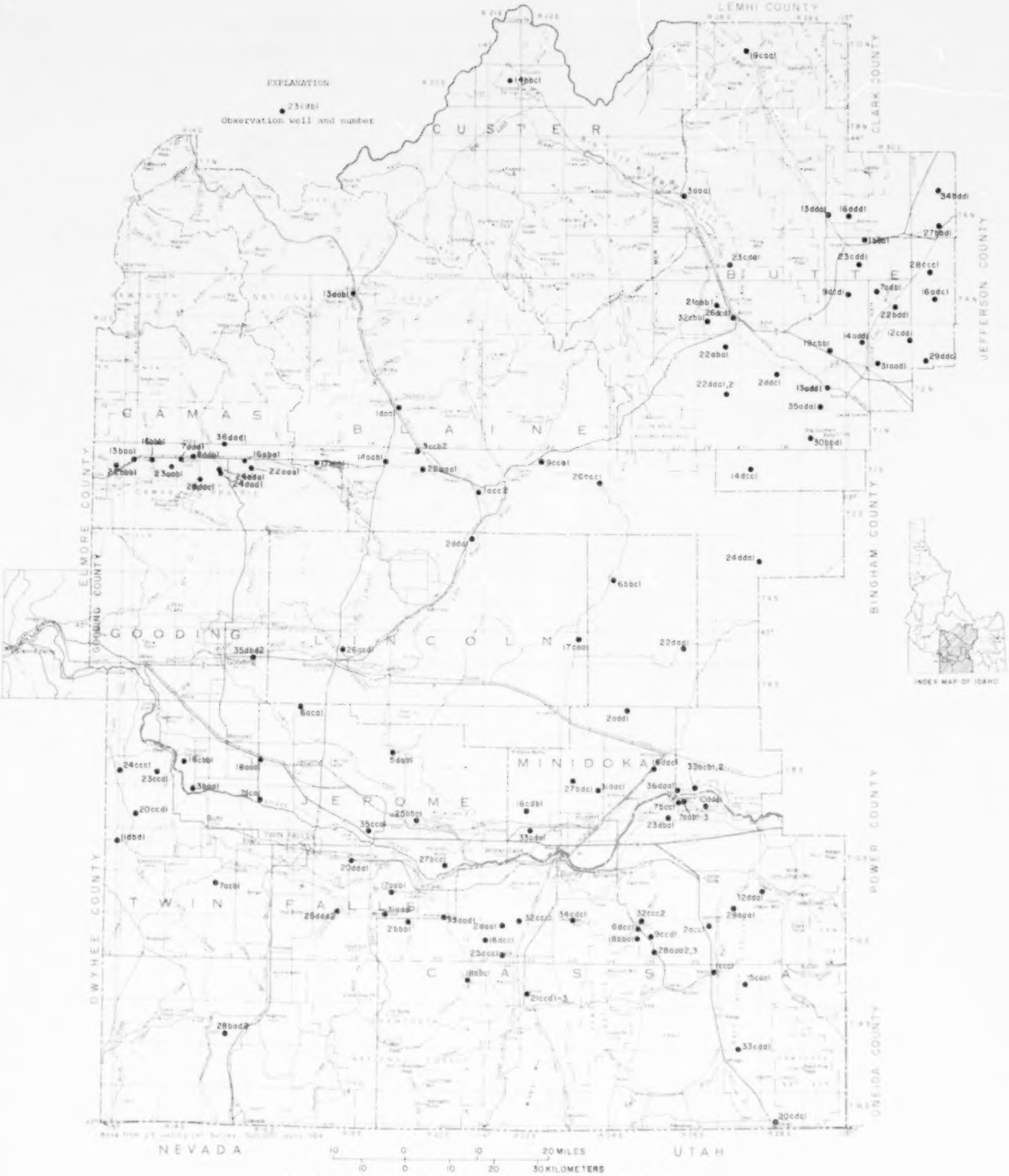
EXPLANATION
23ddbl
Observation well and number
LEMHI COUNTY
CLARK COUNTY
JEFFERSON COUNTY
BINGHAM COUNTY
POWER COUNTY
ONEIDA COUNTY
CUSTER
BUTTE
CAMAS
BLAINE
ELMORE COUNTY
GOODING COUNTY
GOODING
LINCOLN
MINIDOKA
JEROME
TWIN FALLS
CASSIA
OWYHEE COUNTY
NEVADA
UTAH
INDEX MAP OF IDAHO
10 0 10 20 MILES
10 0 10 20 30 KILOMETERS
19caa1
14bbc1
3aaa1
34ddd1
13ddd1
16ddd1
27bbd1
18bbd1
23cdd1
23cdd1
28ccc1
9dcd1
7adb1
16adc1
22bdd1
21abb1
26cdd1
32cba1
13aab1
14add1
12cdd1
19cbb1
22aba1
29ddc1
31add1
22dda1,2
2ddc1
13add1
35ada1
30bbd1
1daa1
14dcc1
36dad1
13baa1
16bbb1
7dda1
8dda1
16aba1
24cbb1
23abb1
24dda1
22aaa1
28ddc1
24dda1
17cca1
14aab1
3ccb2
9cca1
28aaa1
26ccc1
1acc2
2dda1
24dda1
6bbc1
35dbd2
26cad1
17caa1
22daa1
8aca1
2add1
5dab1
24ccc1
23ccd1
16cbb1
18aaa1
3baa1
20ccd1
11dbd1
25bbc1
35ccd1
1ddc1
33bcb1,2
27bdc1
31dac1
36dad1
16cdb1
7bcc1
10dda1
7adb1-3
23dba1
33dad1
27bcc1
20dda1
7acb1
12aa1
28ddd2
31add1
2bbb1
33add1
2daa1
32ccd1
34cdc1
32ccc2
6dcc1
9ccd1
2acc1
18bba1
28aaa2,3
12dda1
29aaa1
16dcc1
25ccc1
16bbc1
1ccc1
5caa1
21ccd1-3
28bad2
33cdd1
30cdc1

FIGURE 11.--Observation-well locations in south-central Idaho.

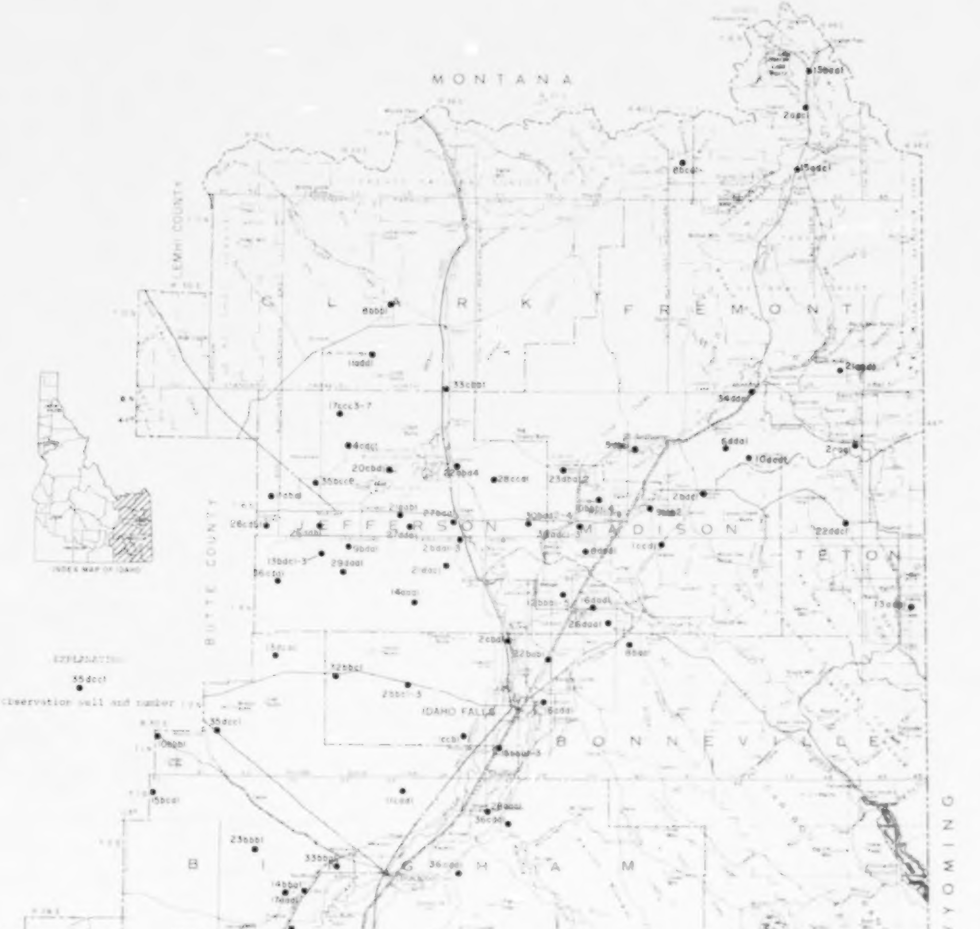
MONTANA
LEMHI COUNTY
CLARK
FREMONT
JEFFERSON
MADISON
TETON
BUTTE COUNTY
INDEX MAP OF IDAHO
EXPLANATION
35dcc1
Observation well and number
IDAHO FALLS
BONNEVILLE
BINGHAM
WYOMING
BLAINE COUNTY
POCATELLO
CARIBOU
POWER
BANNOCK
BEAR LAKE
CASSIA COUNTY
ONEIDA
FRANKLIN
UTAH
20 MILES
30 KILOMETERS

FIGURE 12.--Observation-well locations in southeast Idaho.

WELL 09S 34E 20CBB2 SITE NUMBER 425818112305102

FORMERLY SITE ID NO. 425818112305202. DRILLEDDOMESTIC WATER-TABLE WELL IN SAND OF QUATERNARY AGE. DIAM 6 IN (15 CM). REPORTED DEPTH 154.7 FT (47.2 M). CASED TO 154.7 FT (47.2 M). OPEN END. LSD ABOUT 4,455 FT (1,358 M) NGVD OF 1929. MP NO. 1 TOPOF VENT HOLE IN WELL SEAL WEST SIDE. 0.60 FT (0.183 M) ABOVE LSD (SINCE SEPT. 15, 1964).

RECORDS AVAILABLE 1964 - 1971, 1973 - 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 50.01 FEET BELOW LAND SURFACE DATUM SEP 24, 1973.

LOWEST WATER LEVEL 54.60 FEET BELOW LAND SURFACE DATUM JUL 14, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 19, 1980	53.34	S	AUG 12, 1980	53.44	S

WELL 07S 35E 23CAA1 SITE NUMBER 424748112195501

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUMOF QUATERNARY AGE. DIAM 6 IN (15 CM). REPORTED DEPTH 86 FT (26 M). CASING DEPTH NOT AVAILABLE. LSDABOUT 4,504 FT (1,373 M) NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL SOUTH SIDE. 0.43 FT (0.131 M) ABOVE LSD (SINCE NOV. 16, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.54 FEET BELOW LAND SURFACE DATUM MAY 16, 1972.

LOWEST WATER LEVEL 45.82 FEET BELOW LAND SURFACE DATUM DEC 11, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 25, 1979	44.80	S	FEB 05, 1980	42.29	S	MAY 16, 1980	32.36	S	SEP 12, 1980	32.19	S
DEC 11	45.82	S	MAR 17	33.75	S	AUG 11	30.41	S			

WELL 10S 36E 08DDD1 SITE NUMBER 423347112161001

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION. DIAM 16 IN (41 CM). REPORTED DEPTH 216 FT (66 M). CASED TO 216 FT (66 M). PERFORATED 115-120 (35-37 M). 128-132 FT (39-40 M). 138-140 FT (42-43 M). 170-212 FT (52-65 M). LSD ABOUT 5,020 FT (1,530 M) NGVD OF 1929. MP NO. 2 HOLE IN CASING COVER SOUTHEAST SIDE. 1.50 FT (0.457 M) ABOVELSD (SINCE DEC. 14, 1972).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 62.78 FEET BELOW LAND SURFACE DATUM JUL 18, 1972.

LOWEST WATER LEVEL 72.64 FEET BELOW LAND SURFACE DATUM OCT 24, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 24, 1979	72.64	S	FEB 05, 1980	71.47	S	JUL 17, 1980	70.33	S	SEP 12, 1980	71.46	S
DEC 11	72.15	S	MAY 16	69.88	S						

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WELL 11S 37E 16BBB1 SITE NUMBER 422821112085701

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 16 IN (41 CM), DEPTH 64.6 FT (19.7 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,842 FT (1,476 M) NGVD OF 1929. MP NO. 1 TOP OF CASING WEST SIDE, 0.60 FT (0.183 M) ABOVE LSD(SINCE OCT. 24, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.66 FEET BELOW LAND SURFACE DATUM SEP 12, 1980.

LOWEST WATER LEVEL 14.82 FEET BELOW LAND SURFACE DATUM MAY 20, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 24, 1979	12.15	S	FEB 05, 1980	12.63	S	JUL 17, 1980	11.90	S	SEP 12, 1980	9.66	S
DEC 11	12.83	S	MAY 14	14.32	S						

WELL 13S 43E 35CCD1 SITE NUMBER 421433111235401

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 10 IN (25 CM), REPORTED DEPTH 500 FT (152 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,950 FT (1,814 M) NGVD OF 1929. MP NO. 1 TOP OF 10-IN (25-CM) CASING WEST SIDE, 5.40 FT (1.646 M) BELOW LSD (SINCE SEPT. 18, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.78 FEET BELOW LAND SURFACE DATUM AUG 15, 1968.

LOWEST WATER LEVEL 19.88 FEET BELOW LAND SURFACE DATUM MAR 08, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 24, 1979	18.58	S	FEB 07, 1980	19.26	S	MAY 14, 1980	14.28	S	SEP 10, 1980	15.47	S
DEC 12	18.31	S	MAR 26	18.72	S	JUL 15	13.82	S			

WELL 13S 44E 26BAD1 SITE NUMBER 421606111164201

DRILLED IRRIGATION WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 14 IN (36 CM), REPORTED DEPTH 170 FT (52 M), CASED TO 170 FT (52 M), PERFORATED20-170 FT (6-52 M). LSD ABOUT 5,970 FT (1,820 M) NGVD OF 1929. MP NO. 1 TOP OF HOLE IN PUMPBASE SOUTHEAST SIDE, 0.40 FT (0.123 M) ABOVE LSD (SINCE SEPT. 20, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 13.48 FEET BELOW LAND SURFACE DATUM JUL 12, 1978.

LOWEST WATER LEVEL 24.45 FEET BELOW LAND SURFACE DATUM APR 08, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 24, 1979	17.75	S	FEB 07, 1980	22.21	S	MAY 14, 1980	20.00	S	SEP 10, 1980	14.88	S
DEC 12	20.45	S	MAR 26	23.04	S	JUL 15	16.64	S			

WELL 03N 32E 13DCA1 SITE NUMBER 433509112384801

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 10 IN (25 CM), DEPTH 790 FT (241 M), CASED TO 790 (241 M), PERFORATED 680-730 FT (207-222 M), 737-787 FT (225-240 M), GRAVEL PACKED, CEMENTED BOTTOM. LSD 5,165.51 FT (1,574.447 M) NGVD OF 1929, BASED ON ELEVATION OF 1947 (PRELIMINARY). MP NO. 4 TOP OF 10-IN (25-CM) CASING NORTHEAST SIDE, 1.50 FT (0.457 M) ABOVE LSD (SINCE MAY 28, 1980).

RECORDS AVAILABLE 1958 TO CURRENT YEAR.

HIGHEST WATER LEVEL 672.06 FEET BELOW LAND SURFACE DATUM MAR 14, 1973.

LOWEST WATER LEVEL 679.74 FEET BELOW LAND SURFACE DATUM SEP 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 08, 1979	679.33	S	JAN 24, 1980	677.42	S	APR 14, 1980	677.55	S	JUL 23, 1980	679.19	S
NOV 20	678.54	S	FEB 22	677.43	S	MAY 28	679.20	S	AUG 14	679.63	S
DEC 26	677.93	S	MAR 18	677.26	S	JUN 24	678.61	S	SEP 25	679.74	S

WELL 02N 31E 35DCC1 SITE NUMBER 432701112471101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 TO 5 IN (15 TO 13 CM), DEPTH 636 FT (194 M), 6-IN (15 CM) CASING 0-433 FT (0-132 M), 5-IN (13-CM) CASING 423-636 FT (129-194 M), PERFORATED 600-630 FT (183-192 M). LSD 5,023.68 FT (1,531.218 M) NGVD OF 1929, BASED ON ELEVATION OF 1947 (PRELIMINARY). RECORDER INSTALLED JAN. 3, 1950. RECORDER REMOVED MAR. 25, 1974. MP NO. 1 TOP OF CASING, 1.49 FT (0.454 M) ABOVE LSD (SINCE DEC. 5, 1949).

RECORDS AVAILABLE 1949, 1950 - 1956, 1957 - 1964, 1965 TO CURRENT YEAR.

HIGHEST WATER LEVEL 582.10 FEET BELOW LAND SURFACE DATUM NOV 12, 1951.

LOWEST WATER LEVEL 587.94 FEET BELOW LAND SURFACE DATUM AUG 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 22, 1979	587.24	S	JAN 25, 1980	587.07	S	APR 25, 1980	587.51	S	JUL 23, 1980	587.76	S
NOV 20	587.13	S	FEB 21	587.05	S	MAY 27	587.50	S	AUG 19	587.94	S
DEC 19	587.11	S	MAR 18	587.22	S	JUN 24	587.41	S	SEP 23	587.48	S

WELL 01N 30E 10BBB1 SITE NUMBER 432620112561301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 563.8 FT (171.8 M), CASING DEPTH NOT AVAILABLE. LSD 4,979.39 FT (1,517.718 M) NGVD OF 1929. ORIGINAL DEPTH 569 FT (173 M) FROM WSP 775. MP NO. 3 TOP OF PUMP COLUMN LINER NORTHEAST SIDE, 1.81 FT (0.552 M) ABOVE LSD (SINCE APR. 6, 1950).

RECORDS AVAILABLE 1922, 1949 - 1951, 1952 TO CURRENT YEAR.

HIGHEST WATER LEVEL 527.36 FEET BELOW LAND SURFACE DATUM APR 20, 1950.

LOWEST WATER LEVEL 553.80 FEET BELOW LAND SURFACE DATUM AUG 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11, 1979	553.24	S	JAN 25, 1980	553.00	S	APR 16, 1980	553.55	S	JUL 21, 1980	553.74	S
NOV 27	553.19	S	FEB 29	553.25	S	MAY 31	553.44	S	AUG 19	553.80	S
DEC 19	552.86	S	MAR 19	553.23	S	JUN 25	553.37	S	SEP 26	553.31	S

WELL 01S 30E 15BCA1 SITE NUMBER 432019112565101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 TO 5 IN (15 TO 13 CM), DEPTH 751.5 FT (229.0 M), 6-IN (15-CM) CASING 0-570 FT (0-174 M), 5-IN (13-CM) CASING 560-752 FT (171-229 M), LEAD SEAL AT 550 FT (168 M). LSD 5,133.08 FT (1,564.563 M) NGVD OF 1929, BASED ON ELEVATIONS OF 1949 (PRELIMINARY). RECORDER INSTALLED DEC. 14, 1951. RECORDER REMOVED AUG. 18, 1960. MP NO. 2 TOP OF 6 1/4-IN (16-CM) THREADED CASING, 1.36 FT (0.414 M) ABOVE LSD (SINCE JUNE 27, 1951).

RECORDS AVAILABLE 1951 - 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 709.80 FEET BELOW LAND SURFACE DATUM OCT 24, 1951.

LOWEST WATER LEVEL 715.78 FEET BELOW LAND SURFACE DATUM JUL 21, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11, 1979	715.04	S	JAN 25, 1980	715.14	S	APR 16, 1980	715.55	S	JUL 21, 1980	715.78	S
NOV 27	714.94	S	FEB 28	715.15	S	MAY 27	715.34	S	AUG 19	715.76	S
DEC 19	714.95	S	MAR 19	715.28	S	JUN 25	715.27	S	SEP 26	715.03	S

WELL 01S 35E 11CAD1 SITE NUMBER 432042112193201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN (46 CM), REPORTED DEPTH 297 FT (90 M), CASED TO 15 FT (5 M). LSD ABOUT 4,662FT (1,421 M) NGVD OF 1929. MP NO. 1 HOLE IN PUMPBASE EAST SIDE, 0.30 FT (0.091 M) ABOVE LSD (SINCEJUNE 20, 1957).

RECORDS AVAILABLE 1957, 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 169.95 FEET BELOW LAND SURFACE DATUM SEP 25, 1972.

LOWEST WATER LEVEL 175.31 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
JAN 15, 1980	173.63	S	MAR 17, 1980	174.51	S	SEP 15, 1980	175.31	S

WELL 01S 37E 28AAA1 SITE NUMBER 431840112071201

DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 62.2 FT (19.0 M), CASED TO 62 FT (19.0 M). LSD ABOUT 4,600 FT (1,402 M) NGVD OF 1929. MP NO. 1 TOP OF CASING NORTH SIDE, 1.50 FT (0.457 M) BELOW LSD (SINCE SEPT. 18, 1957).

RECORDS AVAILABLE 1957 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.39 FEET BELOW LAND SURFACE DATUM SEP 23, 1970.

LOWEST WATER LEVEL 58.64 FEET BELOW LAND SURFACE DATUM MAY 17, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JAN 14, 1980	0	MAR 26, 1980	0	SEP 15, 1980	0

WELL 01S 37E 36CDA1 SITE NUMBER 431705112041301

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 16 IN (41 CM), DEPTH 414.9 FT (126.5 M), CASED 0-350 FT (0-107 M). LSD ABOUT 4,804FT (1,464 M) NGVD OF 1929. MP NO. 1 TOP OF 16-IN (41-CM) CASING SOUTHWEST SIDE FLUSH WITH CONCRETE PLATFORM AT LSD (SINCE MAR. 28, 1958).

RECORDS AVAILABLE 1958 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 230.00 FEET BELOW LAND SURFACE DATUM SEP 25, 1972.

LOWEST WATER LEVEL 262.68 FEET BELOW LAND SURFACE DATUM SEP 17, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 06, 1979	237.77	S	MAR 26, 1980	247.82	S	JUN 19, 1980	251.34	S	AUG 07, 1980	250.68	S
JAN 14, 1980	241.35	S	MAY 21	252.12	S	JUL 30	251.52	S	SEP 15	239.19	S

WELL 02S 32E 23BBB1 SITE NUMBER 431622112411901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 194.0 FT (59.1 M), CASED 0-172 (0-52 M). LSD 4,583.32 FT (1,396.996 M) NGVD OF 1929. NOV. 2, 1971, WELL HAD FILLED IN TO A DEPTH OF 182.2 FT (55.5 M). RECORDER INSTALLED APR. 7, 1960. RECORDER REMOVED SEPT. 22, 1960. MP NO. 3 TOP OF CASING WEST SIDE, 2.00 FT (0.610 M) ABOVE LSD (SINCE APR. 7, 1960).

RECORDS AVAILABLE 1951 - 1959, 1960, 1961 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 162.75 FEET BELOW LAND SURFACE DATUM OCT 19, 1951.

LOWEST WATER LEVEL 169.39 FEET BELOW LAND SURFACE DATUM JUL 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1979	168.25	S	MAR 28, 1980	168.90	S	JUL 31, 1980	169.32	S	SEP 15, 1980	168.03	S
JAN 28, 1980	168.40	S	MAY 21	168.52	S	AUG 05	168.87	S			

WELL 02S 34E 33BBA1 SITE NUMBER 431242112292801

DRILLED STOCK WATER-TABLE WELL IN SNAKE RIVERGROUP, DIAM 6 IN (15 CM), DEPTH 40 FT (12 M), CASED TO 5 FT (1.5 M). LSD 4,456.89 FT (1,358.460 M) NGVD OF 1929. MP NO. 1 BOTTOM EDGE OF 1/4-IN (0.635-CM) HOLE IN PUMPBASE NORTHWEST SIDE, 1.50 FT (0.457 M) ABOVE LSD (SINCE MAY 23, 1952).

RECORDS AVAILABLE 1952 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 23.80 FEET BELOW LAND SURFACE DATUM AUG 30, 1952.

LOWEST WATER LEVEL 33.33 FEET BELOW LAND SURFACE DATUM MAR 20, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1979	32.35	S	MAR 20, 1980	33.33	S	JUL 31, 1980	29.11	S	SEP 15, 1980	29.14	S
JAN 28, 1980	32.69	S	MAY 21	30.60	S	AUG 06	28.77	S			

WELL 02S 36E 36CDD1 SITE NUMBER 431148112111801

DRILLED STOCK WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 6 IN (15 CM), DEPTH 98.0 FT (29.9 M), CASED TO 97 FT (29.5 M). LSD ABOUT 4,636 FT (1,413 M) NGVD OF 1929. MP NO. 1 TOP OF CASING SOUTH SIDE, 2.00 FT (0.610 M) ABOVE LSD (SINCE APR.7, 1955).

RECORDS AVAILABLE 1955, 1958 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 74.57 FEET BELOW LAND SURFACE DATUM OCT 25, 1959.

LOWEST WATER LEVEL 77.50 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 20, 1980	76.61	S	AUG 06, 1980	77.50	S	SEP 16, 1980	76.42	S

WELL 03S 33E 14BBA1 SITE NUMBER 431006112340901

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 44 FT (13 M), CASED TO 3 FT (0.9 M). LSD 4,461.55 FT (1,359.880 M) NGVD OF 1929. MP NO. 2 TOP OF CASING NORTH SIDE, 0.27 FT (0.082 M) ABOVE LSD (SINCE SEPT. 19, 1979).

RECORDS AVAILABLE 1952 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 34.49 FEET BELOW LAND SURFACE DATUM AUG 30, 1952.

LOWEST WATER LEVEL 44.13 FEET BELOW LAND SURFACE DATUM APR 27, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 20, 1980	42.55	S	AUG 06, 1980	40.72	S	SEP 15, 1980	40.16	S

WELL 03S 33E 17AAD1 SITE NUMBER 430955112365001

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN (46 CM), DEPTH 185 FT (56.4 M), CASING DEPTH NOT AVAILABLE. LSD 4,512.75 FT (1,375.486 M) NGVD OF 1929. MP NO. 2 TOP OF 18-IN (46-CM) CASING NORTH SIDE, 0.80 FT (0.244 M) ABOVE LSD (SINCE SEPT. 17, 1976).

RECORDS AVAILABLE 1951 - 1956, 1958 - 1969, 1972, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 89.57 FEET BELOW LAND SURFACE DATUM OCT 02, 1952.

LOWEST WATER LEVEL 96.16 FEET BELOW LAND SURFACE DATUM MAR 20, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 20, 1980	96.16	S	AUG 06, 1980	95.61	S	SEP 15, 1980	94.52	S

WELL 04S 31E 20BBB1 SITE NUMBER 430402112520301

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN (41 CM), REPORTED DEPTH 201 FT (61.3 M), CASED TO 5 FT (1.5 M), LSD 4,523.34FT (1,378.714 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947, MP NO. 3 TOP OF 3/4-IN (1.9-CM) HOLE IN PUMPBASE NORTH SIDE, 0.29 FT (0.088 M) ABOVE LSD (SINCE JAN. 19, 1978).

RECORDS AVAILABLE 1953, 1962 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 115.09 FEET BELOW LAND SURFACE DATUM OCT 02, 1953.

LOWEST WATER LEVEL 122.04 FEET BELOW LAND SURFACE DATUM AUG 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1980	120.98	S	AUG 08, 1980	122.04	S	SEP 15, 1980	121.00	S

WELL 04S 31E 36ABA1 SITE NUMBER 430216112464001

DRIVEN OBSERVATION WATER-TABLE WELL IN AMERICAN FALLS LAKE BEDS, DIAM 1 1/4 IN (3.2 CM), DEPTH 17.1 FT (5.2 M), CASED TO 17 FT (5.2 M), WELL POINT 15.9-18.4 FT (4.80-5.61 M), LSD 4,401.78 FT (1,341.662 M) NGVD OF 1929, MP NO. 1 TOP OF 11/4-IN (3.2-CM) CASING NORTH SIDE, 1.50 FT (0.457 M) ABOVE LSD (SINCE JULY 26, 1959).

RECORDS AVAILABLE 1959 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.26 FEET ABOVE LAND SURFACE DATUM SEP 19, 1973.

LOWEST WATER LEVEL 6.98 FEET BELOW LAND SURFACE DATUM MAR 20, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 28, 1980	6.93	S	AUG 08, 1980	3.41	S	SEP 15, 1980	3.16	S

WELL 04S 32E 13CBB1 SITE NUMBER 420425112401101

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), REPORTED DEPTH 60 FT (18.3 M), CASED TO 60 FT (18.3 M), LSD 4,410.86 FT (1,344.430 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962, MP NO. 2 TOP OF 1/2-IN (1.27-CM) HOLE IN WELL SEAL NORTHWEST SIDE, 5.01 FT (1.527 M) BELOW LSD (SINCE SEPT. 19, 1979).

RECORDS AVAILABLE 1961 - 1962, 1963 - 1969, 1972, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.49 FEET BELOW LAND SURFACE DATUM AUG 11, 1965.

LOWEST WATER LEVEL 18.26 FEET BELOW LAND SURFACE DATUM MAR 29, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 29, 1980	18.26	S	AUG 07, 1980	16.06	S	SEP 15, 1980	15.35	S

WELL 04S 33E 03CBB2 SITE NUMBER 430610112353301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 53.3 FT (16.2 M), CASED TO 12 FT (3.6 M). LSD 4,447.94 FT (1,355.732 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED JULY 23, 1959. RECORDER REMOVED MAY 25, 1969. DIGITAL RECORDER INSTALLED JAN. 12, 1978. MP NO. 1 TOP OF CASING SOUTH SIDE, 1.10 FT (0.335 M) ABOVE LSD (SINCE MAR. 25, 1959).

RECORDS AVAILABLE 1959 - 1969, 1970 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.37 FEET BELOW LAND SURFACE DATUM AUG 19, 1969.

LOWEST WATER LEVEL 40.27 FEET BELOW LAND SURFACE DATUM JAN 19, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	36.99	DEC 31, 1979	39.48	MAR 05, 1980	39.52	JUL 25, 1980	37.13
10	36.93	JAN 02 1980	39.51	10	39.65	31	36.99
15	36.54	03	39.51	15	39.59	AUG 05	36.56
20	36.20	05	39.45	20	39.72	10	36.75
25	36.71	10	39.25	25	39.68	15	36.76
31	37.22	15	39.42	29	39.81	20	36.74
NOV 05	37.58	20	39.34	MAY 31	37.70	25	36.44
10	37.86	25	39.21	JUN 05	37.64	31	36.75
15	38.27	31	39.36	10	37.54	SEP 05	37.08
20	38.45	FEB 05	39.54	15	37.95	10	37.29
25	38.58	08	39.51	20	38.14	15	36.91
30	38.96	09	39.51	25	37.73	20	36.48
DEC 05	39.00	10	39.56	30	37.87	21	36.42
10	39.03	15	39.41	JUL 05	37.91	25	36.62
15	39.20	20	39.36	10	37.75	30	36.91
20	39.23	25	39.71	15	37.83		
25	39.26	29	39.64	20	37.70		

WELL 05S 30E 12BBA1 SITE NUMBER 430030112541301

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 IN (30 CM), REPORTED DEPTH 200 FT (61.0 M), CASED TO 6 FT (1.8 M). LSD 4,501.51FT (1,372.060 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 BOTTOM EDGE OF PUMPBASE NORTHWEST SIDE, 0.43 FT (0.131 M) ABOVE LSD (SINCE MAY 24, 1968).

RECORDS AVAILABLE 1951 - 1956, 1958 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 104.22 FEET BELOW LAND SURFACE DATUM AUG 29, 1951.

LOWEST WATER LEVEL 112.03 FEET BELOW LAND SURFACE DATUM AUG 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 15, 1980	110.21	S	AUG 08, 1980	112.03	S	SEP 15, 1980	110.90	S

WELL 05S 31E 19DDC1 SITE NUMBER 425803112521301

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 61.3 FT (18.7 M), CASED TO 70 FT (21.3 M), OPEN END. LSD 4,427.04 FT (1,349.361 M) NGVD OF 1929. ORIGINAL REPORTED DEPTH 70 FT (21.3 M). MEASUREMENTS PRIOR TO 1952 MADE BY ABERDEEN-SPRINGFIELD CANAL CO. MP NO. 4 TOP OF 3/8-IN (0.32-CM) COUPLING IN WOODEN COVER NORTH SIDE, 0.30 FT (0.091 M) ABOVE LSD (SINCE AUG. 22, 1964).

RECORDS AVAILABLE 1944 - 1947, 1952 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 37.40 FEET BELOW LAND SURFACE DATUM SEP 09, 1947.

LOWEST WATER LEVEL 46.34 FEET BELOW LAND SURFACE DATUM SEP 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 15, 1980	44.60	S	AUG 08, 1980	46.10	S	SEP 15, 1980	45.01	S

WELL 05S 31E 27ABA1 SITE NUMBER 425757112485201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 TO 12 IN (41 TO 30 CM), DEPTH 48.9 FT (14.9 M), CASED TO 16 FT (4.9 M). LSD 4,399.83 FT (1,341.068 M) NGVD OF 1929. MEASUREMENTS PRIOR TO 1952 MADE BY ABERDEEN-SPRINGFIELD CANAL CO. RECORDER INSTALLED JULY 16, 1952. RECORDER CHANGED TO DIGITAL MAY 30, 1973. MP NO. 2 TOP INSIDE EDGE OF CASING, 0.50 FT (0.152 M) ABOVE LSD (SINCE MAY 24, 1952).

RECORDS AVAILABLE 1945 - 1947, 1948 - 1949, 1952 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.97 FEET BELOW LAND SURFACE DATUM AUG 16, 1968.

LOWEST WATER LEVEL 25.84 FEET BELOW LAND SURFACE DATUM APR 28, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	14.48	MAR 15, 1980	21.49	JUN 25, 1980	18.44	AUG 20, 1980	12.55
10	14.81	20	21.78	30	17.67	25	12.87
15	15.08	25	21.89	JUL 05	17.00	31	12.48
20	15.05	31	22.02	10	16.24	SEP 05	12.45
21	15.33	APR 05	22.27	15	15.47	10	12.14
22	15.33	MAY 21	21.34	20	15.13	15	13.04
23	15.33	25	20.94	21	12.77	20	13.34
JAN 29, 1980	20.60	31	20.73	25	14.55	25	13.85
31	21.06	JUN 05	20.41	31	13.63	29	14.11
FEB 05	21.15	10	20.06	AUG 05	13.27	30	14.06
07	21.97	15	19.62	10	13.30		
10	21.25	20	19.01	15	13.22		

WELL 05S 32E 18CDC1 SITE NUMBER 425849112456801

DRILLED DOMESTIC AND STOCK ARTESIAN WELL IN GRAVEL OF QUATERNARY AGE, DIAM 8 IN (20 CM), REPORTED DEPTH 240 FT (73.2 M), CASED TO 240 FT (73.2 M). LSD 4,373.82 FT (1,333.140 M) NGVD OF 1929. MP NO. 1 TOP OF 6-IN (15-CM) COUPLING ON DISCHARGE PIPE 22.00 FT (6.706 M) EAST OF WELL, 3.00 FT (0.914 M) ABOVE LSD (SINCE OCT. 15, 1961).

RECORDS AVAILABLE 1961 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 16.11 FEET ABOVE LAND SURFACE DATUM MAR 23, 1972.

LOWEST WATER LEVEL 2.24 FEET ABOVE LAND SURFACE DATUM AUG 08, 1978.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 29, 1979	6.83 E S	MAY 21, 1980	10.98 E M	AUG 09, 1980	8.20 E S	SEP 15, 1980	8.03 E M
JAN 28, 1980	9.67 E S						

WELL 06S 31E 16BAA1 SITE NUMBER 425427112503801

DRILLED IRRIGATION WATER-TABLE WELL, IN UNKNOWN AQUIFER, DIAM 12 IN (30 CM), DEPTH 134 FT (40.8 M), CASING DEPTH NOT AVAILABLE. LSD 4,392.21 FT (1,338.746 M) NGVD OF 1929. MEASUREMENTS PRIOR TO 1952 MADE BY ABERDEEN-SPRINGFIELD CANAL CO. RECORDER INSTALLED OCT. 4, 1952. RECORDER REMOVED MAY 18, 1955. MP NO. 3 TOP OF 7/8-IN (2.2-CM) HOLE INNORTHWEST CORNER OF STEEL PUMPBASE, 0.25 FT (0.076 M) ABOVE LSD (SINCE JUNE 24, 1958).

RECORDS AVAILABLE 1944 - 1949, 1952 - 1955, 1956 - 1968, 1969 - 1972, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.90 FEET BELOW LAND SURFACE DATUM AUG 28, 1944.

LOWEST WATER LEVEL 17.45 FEET BELOW LAND SURFACE DATUM MAR 09, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 15, 1980	16.30 S	SEP 15, 1980	15.03 S

WELL 04N 17E 13AAB1

SITE NUMBER 434108114221001

DRILLED INDUSTRIAL WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 TO 10 IN (30 TO 25 CM), DEPTH 187 FT (57.0 M), 12-IN (30-CM) CASING 0-32 FT (0-9.8 M), 10-IN (25-CM) CASING 0-54 FT (0-16.5 M). LSD 5,813.08 FT (1,771.827 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 4, 1977. MP NO. 1 TOP OF 10-IN (25-CM) CASING SOUTH SIDE, 1.97 FT (0.600 M) ABOVE LSD (SINCE APR. 4, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.89 FEET BELOW LAND SURFACE DATUM APR 25, 1980.

LOWEST WATER LEVEL 17.26 FEET BELOW LAND SURFACE DATUM NOV 22, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1979	16.00	DEC 31, 1979	16.72	APR 05, 1980	16.26	JUL 05, 1980	13.69
05	16.30	JAN 05 1980	16.94	10	16.13	10	14.04
10	16.49	10	16.86	15	15.23	15	14.34
15	16.70	15	16.74	20	13.56	20	14.53
20	16.58	20	16.82	25	12.89	25	14.74
25	16.74	25	16.87	30	13.22	31	14.98
31	16.85	31	16.75	MAY 05	13.40	AUG 05	15.13
NOV 05	16.87	FEB 05	16.81	10	13.29	10	15.27
10	16.95	10	16.93	15	14.02	15	15.40
15	17.03	15	16.95	20	14.16	20	15.32
16	17.06	20	16.69	25	13.59	25	15.41
20	17.06	25	16.87	31	13.83	30	15.51
25	17.12	29	16.78	JUN 05	13.83	31	15.44
30	17.13	MAR 05	16.80	10	13.96	SEP 05	15.44
DEC 05	16.96	10	16.90	15	13.64	10	15.33
10	16.86	15	16.79	20	13.33	15	15.02
15	16.99	20	16.83	22	13.17	20	15.36
20	17.03	25	16.65	25	13.31	25	15.29
25	16.98	31	16.55	30	13.79	30	15.49

WELL 01N 18E 01DAA1

SITE NUMBER 432657114144801

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 84.8 FT (25.8 M), CASED TO 85 FT (26 M), PERFORATED 78-84 FT (23.8-25.6 M). LSD 5,136.59 FT (1,565.633 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED JULY 22, 1954. RECORDER REMOVED OCT. 4, 1955. RECORDER INSTALLED MAY 21, 1975. RECORDER REMOVED DEC. 10, 1976. RECORDER INSTALLED AUG. 24, 1978. MP NO. 1 TOP OF CASING WEST SIDE, 0.90 FT (0.274 M) ABOVE LSD (SINCE JULY 22, 1954).

RECORDS AVAILABLE 1954 - 1955, 1956 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.51 FEET BELOW LAND SURFACE DATUM JUN 19, 1965.

LOWEST WATER LEVEL 50.23 FEET BELOW LAND SURFACE DATUM MAR 27, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 1979	45.64	DEC 20, 1979	47.54	APR 30, 1980	45.08	JUL 23, 1980	37.99
05	45.64	25	47.85	MAY 05	43.95	25	38.08
10	45.54	31	48.20	10	43.29	31	38.41
15	45.54	JAN 05, 1980	48.34	15	42.83	AUG 05	38.88
20	45.46	10	48.55	20	42.39	10	39.51
25	45.46	14	48.67	25	42.05	15	40.43
29	45.41	15	48.57	31	42.04	20	41.03
31	45.43	20	48.40	JUN 05	42.03	25	41.54
NOV 05	45.45	25	48.60	10	41.79	30	42.00
10	45.54	31	48.79	15	41.11	SEP 05	42.39
15	45.79	FEB 04	48.92	20	40.37	08	42.73
19	45.92	MAR 26	49.25	25	39.80	15	42.50
20	45.96	31	49.09	30	39.12	20	42.27
25	46.33	APR 05	49.03	JUL 03	39.09	25	42.34
30	46.53	10	48.83	05	39.26	30	42.47
DEC 05	46.61	15	48.55	10	39.43		
10	46.79	20	48.01	15	38.83		
15	47.18	25	46.34	20	38.11		

WELL 01S 17E 17BBA1 SITE NUMBER 432028114282401

DRILLED UNUSED WATER-TABLE WELL IN BRUNEAU FORMATION, DIAM 18 IN (46 CM), REPORTED DEPTH 154 FT (46.9 M), CASED TO 28 FT (8.5 M). LSD ABOUT 4,938 FT (1,505 M) NGVD OF 1929. MP NO. 1 TOP OF 18-IN (46-CM) CASING SOUTH SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE MAR. 11, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 35.56 FEET BELOW LAND SURFACE DATUM MAR 11, 1977.

LOWEST WATER LEVEL 42.55 FEET BELOW LAND SURFACE DATUM DEC 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	41.71	S	DEC 18, 1979	42.55	S	MAY 17, 1980	41.70	S	AUG 18, 1980	41.97	S
23	41.77	S	JAN 16 1980	42.48	S	JUL 08	41.85	S	SEP 12	42.29	S
NOV 20	42.19	S	MAR 25	42.41	S	AUG 10	41.95	S			

WELL 01S 18E 14AAB1 SITE NUMBER 432042114163801

DRILLED IRRIGATION ARTESIAN WELL IN GRAVEL OFQUATERNARY AGE, DIAM 6 IN (15 CM), REPORTED DEPTH 120 FT (37 M), CASING DEPTH NOT AVAILABLE. LSD 4,903.22 FT (1,494.502 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF CONCRETE ON SOUTH SIDE OF STILLING POOL, 1.00 FT (0.305 M) ABOVE LSD (SINCE JULY 12, 1954).

RECORDS AVAILABLE 1954 - 1957, 1958 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 46.47 FEET ABOVE LAND SURFACE DATUM JUN 27, 1958.

LOWEST WATER LEVEL 18.57 FEET ABOVE LAND SURFACE DATUM MAY 20, 1961.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 23, 1979	23.73	M	JAN 16, 1980	23.01	E M	MAY 17, 1980	29.46	E M	SEP 11, 1980	31.76	M
NOV 19	23.81	E M	MAR 25	22.61	E M	JUL 08	32.32	M			

WELL 01S 19E 03CCB2 SITE NUMBER 432143114114301

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 51.1 FT (15.6 M), CASED TO 51 FT (15.5 M), PERFORATED 25-35 FT (7.6-10.7 M). LSD 4,933.70 FT (1,503.792 M) NGVD OF 1929, PACIFIC NORTHWESTSUPPLEMENTARY ADJUSTMENT OF 1947. WATER LEVEL INFLUENCED BY NEARBY WELL BEING PUMPED. RECORDER INSTALLED JULY 29, 1954. MP NO. 2 TOP OF CASING EAST SIDE, 1.50 FT (0.457 M) ABOVE LSD (SINCEJUNE 9, 1964).

RECORDS AVAILABLE 1954 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.55 FEET BELOW LAND SURFACE DATUM AUG 12, 1965.

LOWEST WATER LEVEL 22.26 FEET BELOW LAND SURFACE DATUM MAR 20, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	18.76	JAN 01, 1980	19.84	MAR 31, 1980	19.97	JUL 05, 1980	10.90
10	18.91	05	19.94	APR 05	20.08	10	10.82
15	19.01	10	20.04	10	20.18	15	10.30
20	19.09	15	20.10	15	20.27	20	10.58
25	19.08	20	20.03	20	20.29	25	10.35
31	19.05	25	20.14	25	20.25	31	9.82
NOV 05	18.94	31	20.24	30	20.15	AUG 03	8.77
10	18.72	FEB 05	20.33	MAY 05	19.85	05	10.07
15	18.63	10	20.40	10	19.64	10	9.37
19	18.58	15	20.46	15	18.45	15	10.19
20	18.57	18	20.50	20	17.09	20	10.05
25	18.68	20	20.14	25	16.13	25	10.25
30	18.90	25	19.86	31	14.41	31	10.85
DEC 05	19.10	29	19.96	JUN 05	13.94	SEP 05	10.99
10	19.25	MAR 05	19.97	10	14.45	10	11.30
15	19.40	10	19.98	15	14.54	15	10.90
20	19.56	15	20.04	20	13.78	20	10.88
25	19.69	20	20.10	25	12.38	25	11.07
31	19.84	25	19.96	30	11.33	30	11.34

WELL 01S 19E 22AAA1 SITE NUMBER 431944114103501

DRILLED OBSERVATION ARTESIAN WELL IN SAND ANDGRAVEL OF QUATERNARY AGE, DIAM 6 IN (15 CM), REPORTED DEPTH 150 FT (46 M), CASED TO 116 FT (35 M) PERFORATED, INTERVAL NOT AVAILABLE. LSD 4,885.39 FT (1,489.067 M) NGVD OF 1929, PACIFIC NORTHWESTSUPPLEMENTARY ADJUSTMENT OF 1947, MP NO. 2 TOP OF CASING CAP, 1.00 FT (0.305 M) ABOVE LSD (SINCE MAY 26, 1964).

RECORDS AVAILABLE 1954 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.18 FEET ABOVE LAND SURFACE DATUM SEP 22, 1975.

LOWEST WATER LEVEL 2.80 FEET ABOVE LAND SURFACE DATUM JUL 17, 1977.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	5.69	M	JAN 16, 1980	5.74	E S	MAY 17, 1980	5.58	E S	AUG 10, 1980	6.81	E M
NOV 19	5.46	M	MAR 25	5.61	E M	JUL 09	5.01	E M	SEP 11	6.86	E M

WELL 01S 22E 09CCA1 SITE NUMBER 432053113511201

FORMERLY SITE ID NO. 432046113512501, WELL NO. 01S 22E 09CCD1. DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 98.1 FT (29.9 M), CASED TO 21 FT (6.4 M). LSD ABOUT 4,863 FT (1,482 M) NGVD OF 1929. OCT. 11, 1972 WELL HAD FILLED INTO A DEPTH OF 94.0 FT (28.7 M). MP NO. 2 TOP OF CASING, 1.50 FT (0.457 M) ABOVE LSD (SINCE FEB. 19, 1962).

RECORDS AVAILABLE 1960 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 45.00 FEET BELOW LAND SURFACE DATUM MAY 25, 1965.

LOWEST WATER LEVEL 77.24 FEET BELOW LAND SURFACE DATUM JAN 24, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 03, 1979	65.92	S	JAN 16, 1980	66.10	S	MAY 18, 1980	61.52	S	AUG 09, 1980	58.35	S
NOV 19	65.71	S	MAR 18	65.76	S	JUL 10	59.04	S	SEP 08	58.51	S

WELL 01S 23E 26CCC1 SITE NUMBER 431810113413601

FORMERLY SITE ID NO. 431803113433001. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN (10 CM), REPORTED DEPTH 1,030.7 FT (314.2 M), CASED TO 1,030.7 FT (314.2 M), PERFORATED 1,000.7-1,025.7 FT (305.0-312.6 M). LSD ABOUT5,030 FT (1,533 M) NGVD OF 1929. MP NO. 1 TOP OF 2-IN (5.1-CM) PIPE COUPLING SOUTHWEST SIDE, 2.12 FT (0.646 M) ABOVE LSD (SINCE SEPT. 19, 1972).

RECORDS AVAILABLE 1972 - 1974, 1975 - 1976, 1977, 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 946.97 FEET BELOW LAND SURFACE DATUM FEB 27, 1974.

LOWEST WATER LEVEL 956.45 FEET BELOW LAND SURFACE DATUM SEP 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 03, 1979	956.42	S	JAN 17, 1980	955.45	S	MAY 18, 1980	955.25	S	AUG 09, 1980	955.98	S
NOV 19	955.74	S	MAR 18	955.08	S	JUL 10	955.58	S	SEP 08	956.45	S

WELL 02S 20E 01ACC2 SITE NUMBER 431642114013002

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 10 IN (25 CM), DEPTH 208.6 FT (63.6 M), CASED TO 208 FT (63 M), PERFORATED 185-194 FT (56.4-59.1 M), 197-206 FT (60.0-62.8 M). LSD 4,790.07 FT (1,460.013 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED AUG. 17, 1955. RECORDER REMOVED AUG. 20, 1971. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 1.20 FT (0.366 M) ABOVE LSD (SINCE OCT.18, 1954).

RECORDS AVAILABLE 1954, 1955 - 1971, 1972 - 1974, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 125.04 FEET BELOW LAND SURFACE DATUM SEP 25, 1965.

LOWEST WATER LEVEL 152.54 FEET BELOW LAND SURFACE DATUM FEB 26, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 03, 1979	147.30 S	S	JAN 16, 1980	150.43	S	MAY 17, 1980	149.50	S	AUG 10, 1980	146.86	S
NOV 19	148.51	S	MAR 25	145.66	S	JUL 09	147.04	S	SEP 11	145.58	S

WELL 03S 27E 24DDA1 SITE NUMBER 430836113143601

FORMERLY SITE ID NO. 430833113143601. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN (10 CM), DEPTH 900.7 FT (274.5 M), CASED TO 900.7 FT (274.5 M), PERFORATED 849-898 FT (258.8-273.7 M). LSD 4,982.10 FT (1,518.544 M) NGVD OF 1929. MP NO. 1 TOP OF 2-IN (5-CM) PIPE COUPLING, 2.35 FT (0.716 M) ABOVE LSD (SINCE JULY 9, 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 846.43 FEET BELOW LAND SURFACE DATUM MAY 29, 1973.

LOWEST WATER LEVEL 855.28 FEET BELOW LAND SURFACE DATUM SEP 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1979	854.73	S	MAY 18, 1980	854.84	S	AUG 08, 1980	855.23	S	SEP 10, 1980	855.28	S
MAR 16, 1980	855.03	S	JUL 29	855.22	S						

WELL 04S 26E 33BCB1 SITE NUMBER 424112113255401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 8 TO 6 IN (20 TO 15 CM). REPORTED DEPTH 242 FT (73.8 M), 8-IN (20-CM) CASING 0-146 FT (0-44.5 M), 6-IN (15-CM) CASING 142-242 FT (43.3-73.8 M), PERFORATED 212-242 FT (64.6-73.8 M). LSD 4,212.73 FT (1,284.040 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF1947. ALL MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY US BUREAU OF RECLAMATION. RECORDER INSTALLED SEPT. 25, 1951. RECORDER REMOVED BY US BUREAU OF RECLAMATION AUG. 9, 1972. MP NO. 2 TOP OF HOLE IN CENTER OF CASING COVER EAST SIDE, 1.03 FT (0.314 M) ABOVE LSD (SINCE JULY 23, 1975).

RECORDS AVAILABLE 1951 - 1972, 1973 - 1976, 1976, 1977 - 1978, 1978 - 1980, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 97.17 FEET BELOW LAND SURFACE DATUM SEP 10, 1952.

LOWEST WATER LEVEL 111.58 FEET BELOW LAND SURFACE DATUM MAR 18, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 25, 1979	109.58	S	JUN 19, 1980	110.72	S	AUG 06, 1980	110.95	S	SEP 16, 1980	110.53	S
MAR 18, 1980	111.58	S	JUL 27	110.96	S						

WELL 08S 26E 33BC02 SITE NUMBER 424112113255402

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 18 IN (46 CM), REPORTED DEPTH 33.0 FT (10.1 M), CASED TO 1 FT (0.3 M), CONCRETE SEAL. LSD 4,212.73 FT (1,284.040 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY US BUREAU OF RECLAMATION. MP NO. 2 TOP OF HOLE IN 18-INCH (46-CM) CASING COVER SOUTH SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE JULY 23, 1975).

RECORDS AVAILABLE 1951 - 1957, 1958 - 1972, 1972 - 1976, 1976, 1977 - 1978, 1978 - 1980, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.95 FEET BELOW LAND SURFACE DATUM OCT 09, 1952.

LOWEST WATER LEVEL 26.58 FEET BELOW LAND SURFACE DATUM MAR 10, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 25, 1979	26.44	S	JUN 19, 1980	21.62	S	AUG 06, 1980	21.64	S	SEP 16, 1980	21.54	S
MAR 18, 1980	24.04	S	JUL 27	21.70	S						

WELL 03N 34E 32ABC1 SITE NUMBER 433307112300001

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN (20 CM), DEPTH 786.0 FT (239.6 M), CASED TO 786 FT (239.6 M), PERFORATED 741-786FT (225.9-239.6 M), GRAVEL PACKED BACKFILL AROUND CASING. LSD 5,216.55 FT (1,590.004 M) NGVD OF1929. JULY 26, 1957, WELL HAD FILLED IN TO A DEPTH OF 720.6 FT (219.6 M). MAY 27, 1964, WELL WAS CLEANED TO A DEPTH OF 786.0 FT (239.6 M). MP NO. 3 TOP OF 8-IN (20-CM) CASING NORTHEAST SIDE, 1.46 FT (0.445 M) ABOVE LSD (SINCE MAY 27, 1964).

RECORDS AVAILABLE 1950 - 1951, 1952 - 1964, 1965 TO CURRENT YEAR.

HIGHEST WATER LEVEL 716.67 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.

LOWEST WATER LEVEL 724.88 FEET BELOW LAND SURFACE DATUM JUL 24, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 08, 1979	723.95	S	JAN 24, 1980	721.79	S	APR 14, 1980	722.59	S	JUL 23, 1980	724.74	S
NOV 20	722.70	S	FEB 22	721.95	S	MAY 28	723.39	S	AUG 19	724.05	S
DEC 26	722.16	S	MAR 18	722.03	S	JUN 24	723.89	S	SEP 25	724.35	S

WELL 03N 37E 02CHD1 SITE NUMBER 433656112043901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 TO 18 IN (51 TO 46 CM), REPORTED DEPTH 508 FT (155 M), 20-IN (51-CM) CASING 0-18 FT (0-5.5 M), 18-IN (46-CM) CASING 217-270 FT (66-82 M), LSD 4,815.97 FT (1,467.907 M) NGVD OF 1929. MP NO. 1 TOP OF CASING, 0.50 FT (0.152 M) ABOVE LSD (SINCE MAY 20, 1957).

RECORDS AVAILABLE 1957 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 145.47 FEET BELOW LAND SURFACE DATUM SEP 17, 1973.

LOWEST WATER LEVEL 176.90 FEET BELOW LAND SURFACE DATUM MAY 20, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 14, 1980	171.02	S	AUG 05, 1980	153.56	S	SEP 16, 1980	148.79	S

WELL 03N 38E 22DAB1 SITE NUMBER 433457111583701

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN (20 CM), REPORTED DEPTH 155 FT (47.2 M), CASED TO 66 FT (20.1 M). LSD ABOUT 4,790 FT (1,459.992 M) NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN (1.9-CM) HOLE IN WELL SEAL SOUTH SIDE,1.90 FT (0.579 M) ABOVE LSD (SINCE SEPT. 19, 1973).

RECORDS AVAILABLE 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 89.52 FEET BELOW LAND SURFACE DATUM SEP 19, 1973.

LOWEST WATER LEVEL 130.32 FEET BELOW LAND SURFACE DATUM MAY 17, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	99.13	S	MAR 18, 1980	122.06	S	JUL 22, 1980	104.62	S	AUG 19, 1980	93.97	S
DEC 07	106.16 R	S	MAY 30	123.51 R	S	AUG 06	97.10	S	SEP 16	92.25	S
JAN 19, 1980	115.40	S									

WELL 03N 40E 08BAA1 SITE NUMBER 433638111462901

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 18 TO 9 IN (46 TO 20 CM), DEPTH 425.0 FT (129.5 M), 18-IN (16-CM) CASING 0-380 FT (0-116 M), 8-IN (20-CM) CASING 380-435 FT (116-133 M), LSD 5,042.60 FT (1,536.984 M) NGVD OF 1929, MP NO. 3 TOP OF 3/4-IN (1.9-CM) HOLE IN WELL SEAL SOUTH SIDE OF CAP, 2.53 FT (0.771 M) ABOVE LSD (SINCE OCT. 27, 1969).

RECORDS AVAILABLE 1957 - 1966, 1967 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 125.00 FEET BELOW LAND SURFACE DATUM SEP 26, 1979.

LOWEST WATER LEVEL 184.29 FEET BELOW LAND SURFACE DATUM APR 27, 1960.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	132.61	S	MAR 19, 1980	169.47	S	JUL 22, 1980	142.76	S	SEP 17, 1980	128.05	R S
JAN 19, 1980	153.79	S	MAY 27	174.34	S						

WELL 02N 35E 02BBC1 SITE NUMBER 433218112191601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 10 IN (25 CM), DEPTH 682.5 FT (208.0 M), CASED TO 108 FT (33 M), LSD 5,089.83 FT (1,551.380 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. JULY 1969 WELL WAS DEEPENED TO A DEPTH OF 1,302.0 FT (396.8 M), CONCRETE SEAL 800-883 FT (244-269 M), GRAVEL PACKED 651-800 FT (198-244 M), 3/4-IN (1.9-CM) PIEZOMETER 0-651 FT (0-198 M), PERFORATED 643.5-648.5 FT (196.1-197.7 M). MP NO. 2 TOP OF 10-IN (25-CM) CASING NORTHWEST SIDE, 1.18 FT (0.360 M) ABOVE LSD (SINCE JULY 26, 1957).

RECORDS AVAILABLE 1950 - 1953, 1954 - 1959, 1960 - 1962, 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 573.29 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.

LOWEST WATER LEVEL 585.39 FEET BELOW LAND SURFACE DATUM JUL 19, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 20, 1979	579.57	S	FEB 22, 1980	579.46	S	MAY 28, 1980	582.16	S	AUG 19, 1980	584.63	S
DEC 26	579.00	S	MAR 18	579.82	S	JUN 24	583.41	S	SEP 25	582.35	S
JAN 23, 1980	579.13	S	APR 14	580.75	S	JUL 23	585.24	S			

WELL 02N 35E 02BBC2 SITE NUMBER 433218112191602

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 982 FT (299 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-982 FT (0-299 M), PERFORATED 909.5-914.5 FT (277.2-278.7 M), GRAVEL PACKED, CONCRETE SEAL. LSD 5,089.83 FT (1,551.380 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 10-IN (25-CM) CASING NORTHWEST SIDE, 1.18 FT (0.360 M) ABOVE LSD (SINCE JULY 23, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 573.26 FEET BELOW LAND SURFACE DATUM NOV 24, 1973.

LOWEST WATER LEVEL 584.13 FEET BELOW LAND SURFACE DATUM JUL 19, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 20, 1979	578.96	S	FEB 22, 1980	579.32	S	MAY 28, 1980	581.96	S	AUG 19, 1980	583.29	S
DEC 26	578.69	S	MAR 18	579.79	S	JUN 24	582.71	S	SEP 25	581.37	S
JAN 23, 1980	578.97	S	APR 14	580.76	S	JUL 23	583.94	S			

WELL 02N 35E 02BBC3 SITE NUMBER 433218112191603

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 1,147 FT (350 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-1,147 FT (0-350 M), PERFORATED 1,117.5-1,122.5 FT (340.6-342.1 M), GRAVEL PACKED, CONCRETE SEAL. LSD 5,089.83 FT (1,551.380 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 10-IN (25-CM) CASING NORTHWEST SIDE, 1.18 FT (0.360 M) ABOVE LSD (SINCE JULY 23, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 573.51 FEET BELOW LAND SURFACE DATUM JAN 17, 1973.

LOWEST WATER LEVEL 584.26 FEET BELOW LAND SURFACE DATUM JUL 19, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 20, 1979	579.11	S	FEB 22, 1980	579.44	S	MAY 28, 1980	582.13	S	AUG 19, 1980	583.47	S
DEC 26	578.84	S	MAR 18	579.92	S	JUN 24	582.84	S	SEP 25	581.54	S
JAN 23, 1980	579.15	S	APR 14	580.89	S	JUL 23	584.01	S			

WELL 02N 38E 16ADD1 SITE NUMBER 433029111590201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN (10 CM), DEPTH 225.0 FT (68.6 M), 6-IN (15-CM) CASING 0-36 FT (0-11 M), 4-IN (10-CM) CASING 0-185 FT (0-56 M), LSD ABOUT 4,738 FT (1,444 M) NGVD OF 1929, MP NO. 1 TOP OF 6-IN (15-CM) CASING NORTH SIDE, 0.70 FT (0.213 M) ABOVE LSD (SINCE FEB. 9, 1970).

RECORDS AVAILABLE 1970 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 95.88 FEET BELOW LAND SURFACE DATUM AUG 14, 1978.

LOWEST WATER LEVEL 129.11 FEET BELOW LAND SURFACE DATUM MAY 22, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	100.50	S	MAR 17, 1980	118.43	S	JUL 22, 1980	98.05	S	SEP 16, 1980	99.43	S
JAN 19, 1980	110.97	S	MAY 27	116.47	S	AUG 06	97.38	S			

WELL 01N 36E 01CCB1 SITE NUMBER 432633112105301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 16 IN (41 CM), DEPTH 217.0 FT (66.1 M), CASED TO 185 FT (56 M), PERFORATED 150-182 FT (46-55 M), LSD 4,674.05 FT (1,424.650 M) NGVD OF 1929, PACIFIC NORTHWESTSUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 6, 1960. RECORDER REMOVED NOV. 11, 1971.MP NO. 4 TOP OF 16-IN (41-CM) CASING NORTHEAST SIDE, 1.40 FT (0.427 M) ABOVE LSD (SINCE JUNE 15, 1964).

RECORDS AVAILABLE 1958, 1960 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 142.95 FEET BELOW LAND SURFACE DATUM OCT 16, 1971.

LOWEST WATER LEVEL 158.00 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 13, 1980	154.56	S	AUG 11, 1980	153.66	S	SEP 16, 1980	150.73	S

WELL 01N 37E 15BBA1 SITE NUMBER 432528112055701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, REPORTED DEPTH 140 FT (42.7 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-118 FT (0-36.0 M),PERFORATED 111-116 FT (33.8-35.4 M), GRAVEL PACKED 0-140 FT (0-42.7 M), CONCRETE SEAL 140-167 FT(42.7-50.9 M). LSD 4,645.70 FT (1,416.009 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE NORTH SIDE, 0.88 FT (0.268 M) ABOVE LSD (SINCE SEPT. 20, 1973).

RECORDS AVAILABLE 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 83.15 FEET BELOW LAND SURFACE DATUM SEP 20, 1973.

LOWEST WATER LEVEL 108.30 FEET BELOW LAND SURFACE DATUM APR 12, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
JAN 16, 1980	98.40	S	JUN 17, 1980	104.88	S	AUG 11, 1980	93.35	S	SEP 16, 1980	89.93	S
MAR 13	104.18	S	JUL 30	95.57	S						

WELL 01N 37E 15BBA2 SITE NUMBER 432528112055702

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, REPORTED DEPTH 255 FT (77.7 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-187.8 FT (0-57.2 M), PERFORATED 180.8-185.8 FT (55.1-56.6 M), GRAVEL PACKED 167-255 FT (50.9-77.7 M), CONCRETE SEAL 140-167 FT (42.7-50.9 M), 255-280 FT (77.7-85.3 M). LSD 4,645.70 FT (1,416.009 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE NORTH SIDE, 0.65 FT (0.198 M) ABOVE LSD (SINCE SEPT. 20, 1973).

RECORDS AVAILABLE 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 83.04 FEET BELOW LAND SURFACE DATUM SEP 20, 1973.

LOWEST WATER LEVEL 109.46 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
JAN 16, 1980	98.03	S	JUN 17, 1980	105.01	S	AUG 11, 1980	93.40	S	SEP 16, 1980	89.85	S
MAR 13	103.85	S	JUL 30	95.65	S						

WELL 01N 37E 15BBA3 SITE NUMBER 432528112055703

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, REPORTED DEPTH 356 FT (108.5 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-318.0 FT (0-96.9 M), SAND POINT 315.5-318.0 FT (96.2-96.9 M), GRAVEL PACKED 280-356 FT (85.3-108.5 M), CONCRETE SEAL 255-280 FT (77.7-85.3 M). LSD 4,645.70 FT (1,416.009 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE NORTH SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE SEPT. 20, 1973).

RECORDS AVAILABLE 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 78.29 FEET BELOW LAND SURFACE DATUM SEP 20, 1973.

LOWEST WATER LEVEL 108.56 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
JAN 16, 1980	95.91	S	JUN 17, 1980	103.82	S	AUG 11, 1980	89.65	S	SEP 16, 1980	86.19	S
MAR 13	102.28	S	JUL 30	92.85	S						

WELL 10N 27E 19CAA1 SITE NUMBER 441052113171001

DRILLED IRRIGATION WATER-TABLE WELL IN GRAVELOF QUATERNARY AGE, DIAM 16 IN (41 CM), DEPTH 127.5 FT (38.9 M), CASED TO 128 FT (39 M), PERFORATED 54-128 FT (16.4-39 M). LSD ABOUT 6,037 FT (1,840 M) NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN (1.9-CM)HOLE INSIDE PUMPBASE SOUTHWEST SIDE, 1.30 FT (0.396 M) ABOVE LSD (SINCE SEPT. 24, 1963).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 35.48 FEET BELOW LAND SURFACE DATUM SEP 20, 1965.

LOWEST WATER LEVEL 39.74 FEET BELOW LAND SURFACE DATUM APR 24, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 10, 1979	37.59 S	JAN 15, 1980	37.85 S	MAY 18, 1980	37.22 S	SEP 09, 1980	45.48 P S
DEC 04	37.65 S	MAR 26	37.94 S	JUL 11	44.27 P T		

WELL 07N 31E 34BDD1 SITE NUMBER 435339112444601

FORMERLY SITE ID NO. 435340112444901, WELL NO. 07N 31E 34BDC1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 320 FT (97.5 M), CASED TO 320 FT (97.5 M), PERFORATED 285-320 FT (87-97.5 M), CEMENTED BOTTOM. LSD 4,848.8 FT (1,477.91 M) NGVD OF 1929. RECORDER INSTALLED OCT. 15, 1952. RECORDER REMOVED OCT. 13, 1954. RECORDER INSTALLED MAY 12, 1961. MP NO. 2 TOP OF 6 1/4-IN (16-CM) CASING NORTHEAST SIDE, 2.40 FT (0.732 M) ABOVE LSD (SINCE OCT. 15, 1952).

RECORDS AVAILABLE 1952 - 1954, 1955 - 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 263.62 FEET BELOW LAND SURFACE DATUM MAY 12, 1974.

LOWEST WATER LEVEL 269.65 FEET BELOW LAND SURFACE DATUM SEP 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	268.91	JAN 05, 1980	268.15	APR 05, 1980	267.49	JUL 05, 1980	268.20
10	268.93	10	267.81	10	267.60	10	268.33
15	268.80	15	268.25	15	267.60	15	268.47
20	268.61	20	268.39	20	267.44	20	268.60
25	268.75	23	268.45	25	267.50	25	268.72
31	268.78	25	268.11	30	267.43	31	268.94
NOV 05	268.88	31	268.33	MAY 05	267.54	AUG 05	268.96
10	268.72	FEB 05	268.28	09	267.28	10	269.13
15	268.92	10	268.12	10	267.34	15	269.17
20	268.81	15	267.99	15	267.46	20	269.36
25	268.66	20	267.77	20	267.65	25	269.41
28	268.97	25	268.10	25	267.45	31	269.48
30	268.83	29	267.99	31	267.69	SEP 05	269.63
DEC 05	268.69	MAR 05	267.70	JUN 05	267.73	10	269.59
10	268.43	10	267.81	10	267.74	15	269.60
15	268.54	15	267.68	15	267.93	20	269.54
20	268.48	20	267.77	20	267.92	25	269.65
25	268.45	25	267.63	25	267.96	30	269.64
31	268.46	31	267.58	30	268.10		

WELL 06N 25E 03AAA1 SITE NUMBER 435313113272301

DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 4 IN (10 CM), DEPTH 91.7 FT (28.0 M), CASED TO 110 FT (33.5 M). LSD ABOUT 5,760 FT (1,756 M) NGVD OF 1929. RECORDER INSTALLED OCT. 1, 1966. RECORDER REMOVED SEPT. 27, 1971. MP NO. 1 TOP OF 4-IN (10-CM) CASING NORTHEAST SIDE, 0.80 FT (0.244 M) ABOVE LSD (SINCE SEPT. 9, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 63.97 FEET BELOW LAND SURFACE DATUM SEP 01, 1974.

LOWEST WATER LEVEL 78.70 FEET BELOW LAND SURFACE DATUM MAR 07, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 11, 1979	73.50 S	JAN 14, 1980	76.93 S	MAY 20, 1980	78.26 S	SEP 09, 1980	70.35 S
DEC 04	75.82 S	MAR 25	78.39 S	JUL 12	71.36 S		

WELL 06N 28E 13DDA1 SITE NUMBER 435045113031701

DRILLED IRRIGATION WATER-TABLE WELL IN GRAVELOF QUATERNARY AGE, DIAM 16 IN (41 CM), REPORTED DEPTH 201 FT (61.3 M), CASED TO 201 FT (61.3 M), PERFORATED 100-201 FT (30.5-61.3 M). LSD ABOUT 4,945 FT (1,507 M) NGVD OF 1929. MP NO. 2 TOP OF 5/8-IN (1.6-CM) HOLE INSIDE PUMPBASE NORTHEAST SIDE, 0.80 FT (0.244 M) ABOVE LSD (SINCE MAY 5, 1965).

RECORDS AVAILABLE 1964 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 95.08 FEET BELOW LAND SURFACE DATUM APR 11, 1973.

LOWEST WATER LEVEL 112.61 FEET BELOW LAND SURFACE DATUM MAR 21, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 10, 1979	107.06	S	JAN 15, 1980	103.18	S	MAY 18, 1980	106.75	S	AUG 05, 1980	106.63	S
DEC 04	104.67	S	MAR 26	102.42	S	JUL 11	104.90	S	SEP 09	107.44	S

WELL 06N 29E 16DDD1 SITE NUMBER 435033112593701

FORMERLY SITE ID NO. 435032112594001. DRILLEDDOMESTIC WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 99.8FT (30.4 M), CASED TO 101 FT (30.8 M), PERFORATED 94-99 FT (28.6-30.2 M), OPEN BOTTOM. LSD ABOUT 4,865 FT (1,483 M) NGVD OF 1929. MP NO. 2 TOP OF CASING EAST SIDE, 1.00 FT (0.305 M) ABOVE LSD(SINCE NOV. 19, 1963).

RECORDS AVAILABLE 1959 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 54.33 FEET BELOW LAND SURFACE DATUM MAY 10, 1973.

LOWEST WATER LEVEL 81.87 FEET BELOW LAND SURFACE DATUM AUG 28, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 10, 1979	72.42	S	JAN 15, 1980	64.60	S	MAY 18, 1980	67.83	S	AUG 05, 1980	79.45	S
DEC 04	67.23	S	MAR 26	61.80	S	JUL 11	75.55 S	S	SEP 09	76.53	S

WELL 06N 31E 27BAD1 SITE NUMBER 434930112443901

FORMERLY SITE ID NO. 434926112444201. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 775.0 FT (236.22 M),CASED TO 760 FT (231.6 M), PERFORATED 241-261 FT (73.4-79.6 M). LSD 4,790.17 FT (1,460.044 M) NGVD OF 1929. AUG. 1952 WELL WAS DEEPENED TO A DEPTH OF 1,200 FT (365.8 M), LATER CAVED TO 903.0 FT (275.23 M). RECORDER INSTALLED MAY 13, 1950. RECORDER REMOVED MAY 2, 1956. MP NO. 3 TOP OF 6 1/4-IN(15.88-CM) CASING NORTHEAST SIDE, 1.45 FT (0.442 M) ABOVE LSD (SINCE AUG. 26, 1952).

RECORDS AVAILABLE 1950 - 1956, 1957 TO CURRENT YEAR.

HIGHEST WATER LEVEL 207.29 FEET BELOW LAND SURFACE DATUM APR 24, 1974.

LOWEST WATER LEVEL 220.24 FEET BELOW LAND SURFACE DATUM JUN 26, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1979	212.04	S	JAN 22, 1980	211.71	S	APR 18, 1980	210.92	S	JUL 22, 1980	211.92	S
NOV 20	212.15	S	FEB 25	211.40	S	MAY 30	211.02	S	AUG 12	213.31	S
DEC 18	211.88	S	MAR 15	210.94	S	JUN 23	211.15	S	SEP 24	212.91	S

WELL 05N 26E 23CDA1 SITE NUMBER 434436113193901

FORMERLY SITE ID NO. 434442113195101, WELL NO. 05N 26E 23CDB1. DRILLED IRRIGATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 20 TO 16 IN(51 TO 41 CM), DEPTH 197.6 FT (60.2 M), CASING DEPTH NOT AVAILABLE, PERFORATED IN GRAVEL. LSD 5,488.02 FT (1,672,748 M) NGVD OF 1929. MP NO. 2 TOP OF CASING, 0.45 FT (0.137 M) BELOW LSD (SINCE OCT. 7, 1959).

RECORDS AVAILABLE 1950 - 1951, 1952 - 1953, 1954 - 1960, 1961 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.13 FEET BELOW LAND SURFACE DATUM SEP 24, 1971.

LOWEST WATER LEVEL 50.87 FEET BELOW LAND SURFACE DATUM MAR 17, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11, 1979	34.54	S	JAN 14, 1980	38.51	S	MAY 20, 1980	31.30	S	SEP 09, 1980	23.32	S
DEC 04	36.97	S	MAR 25	37.04	S	JUL 12	23.17	S			

WELL 05N 29E 01BBB1 SITE NUMBER 434751112571801

FORMERLY SITE ID NO. 434745112571501. DRILLEDUNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN (41 CM). DEPTH 154 FT (47 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,808 FT (1,465 M) NGVD OF 1929. APR. 4, 1966, WELL HAD FILLED IN TO A DEPTH OF 148.8 FT (45.4 M). MP NO. 2 TOP OF CASING WEST SIDE, 1.20 FT (0.366 M) ABOVE LSD(SINCE APR. 4, 1966).

RECORDS AVAILABLE 1959, 1965 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 115.38 FEET BELOW LAND SURFACE DATUM NOV 12, 1971.

LOWEST WATER LEVEL 124.61 FEET BELOW LAND SURFACE DATUM AUG 05, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 18, 1979	123.68	S	JAN 15, 1980	122.18	S	MAY 18, 1980	124.22	S	AUG 05, 1980	124.61	S
DEC 04	123.75	S	MAR 26	123.39	S	JUL 11	124.51	S	SEP 09	123.35	S

WELL 05N 29E 23CDD1 SITE NUMBER 434430112575901

FORMERLY WELL NO. 05N 29E 23CDA1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 M), DEPTH 399.2 FT (121.7 M), CASED TO 399 FT (121.6 M), PERFORATED 285-306 FT (86.9-93.3 M), CEMENTED BOTTOM. LSD 4,800.30 FT (1,463.131 M) NGVD OF 1929. RECORDER INSTALLED OCT. 15, 1952. RECORDER REMOVED NOV. 2, 1970.RECORDER INSTALLED SEPT. 11, 1975. MP NO. 1 TOP OF 6 1/4-IN (16-CM) CASING NORTHEAST SIDE, 1.83 FT (0.558 M) ABOVE LSD (SINCE SEPT. 24, 1951).

RECORDS AVAILABLE 1951, 1952 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 256.55 FEET BELOW LAND SURFACE DATUM MAY 16, 1969.

LOWEST WATER LEVEL 277.59 FEET BELOW LAND SURFACE DATUM APR 06, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	274.24	JAN 10, 1980	274.76	APR 10, 1980	273.55	JUL 14, 1980	275.62
10	274.58	15	274.64	15	273.74	15	275.58
15	274.83	20	274.66	18	273.80	20	275.55
19	275.00	25	274.77	20	273.86	25	275.65
20	274.96	31	274.88	25	274.09	31	275.72
25	274.77	FEB 05	274.98	30	274.29	AUG 03	275.77
31	274.59	10	275.11	MAY 05	274.50	05	275.71
NOV 05	274.52	15	275.23	10	274.74	10	275.75
10	274.40	20	275.18	15	274.86	15	275.32
15	274.41	25	275.17	18	274.93	20	274.99
20	274.37	29	275.25	28	275.31	25	274.74
25	274.34	MAR 05	275.25	31	275.37	31	274.52
30	274.33	07	275.31	JUN 05	275.30	SEP 05	274.39
DEC 05	274.32	10	275.23	10	275.12	10	274.29
10	274.16	15	275.12	15	275.32	15	274.19
15	274.26	20	274.76	20	275.25	20	274.03
20	274.37	25	274.18	25	275.32	25	273.88
25	274.46	31	273.68	30	275.44	30	273.60
31	274.56	APR 05	273.51	JUL 05	275.48		
05, 1980	274.61	06	273.47	10	275.56		

WELL 05N 31E 28CCC1 SITE NUMBER 434334112463101

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12-10-8 IN (30-25-20 CM), DEPTH 716.7 FT (218.4 M), 12-IN (30-CM) CASING 0-339.7 FT(0-103.5 M), 10-IN (25-CM) CASING 320-376.6 FT (97.5-114.8 M), 8-IN (20-CM) CASING 313.1-535FT (95.4-163.1 M). LSD 4,795.03 FT (1,461.525 M) NGVD OF 1929. RECORDER INSTALLED JAN. 13, 1965. RECORDER REMOVED SEPT. 11, 1975. MP NO. 2 TOP OF 1 1/4-IN (3-CM) PIPE COUPLING, 2.20 FT (0.670 M) ABOVE LSD (SINCE OCT. 1, 1975).

RECORDS AVAILABLE 1956 - 1964, 1965 TO CURRENT YEAR.

HIGHEST WATER LEVEL 256.57 FEET BELOW LAND SURFACE DATUM FEB 01, 1972.

LOWEST WATER LEVEL 271.07 FEET BELOW LAND SURFACE DATUM AUG 12, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1979	270.83	S	JAN 23, 1980	268.73	S	APR 15, 1980	267.56	S	JUL 22, 1980	270.48	S
NOV 20	270.04	S	FEB 26	268.16	S	MAY 30	268.38	S	AUG 12	271.07	S
DEC 18	269.22	S	MAR 17	267.92	S	JUN 24	269.13	S	SEP 24	270.77	S

WELL 04N 26E 21ABB1 SITE NUMBER 434004113220101

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8-6-4 IN (20-15-10 CM), REPORTED DEPTH 760 FT (231.6 M), 8-IN (20-CM) CASING 0-431 FT (0-131.4 M), 6-IN (15-CM) CASING 0-650 FT (0-198.1 M), 4-IN (10-CM) CASING 633-760 FT (192.9-231.6 M), PERFORATED 656-661 FT (199.9-201.5 M), 685-690 FT (208.8-210.3 M), JOHNSON NEOPRENE PACKER SET AT 633.50 FT (193.09 M). LSD ABOUT 5,390 FT (1,643 M) NGVDOF 1929. MP NO. 2 TOP OF 8-IN (20-CM) CASING NORTH SIDE, 2.30 FT (0.701 M) ABOVE LSD (SINCE DEC. 6, 1977).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 582.02 FEET BELOW LAND SURFACE DATUM MAY 16, 1979.

LOWEST WATER LEVEL 591.99 FEET BELOW LAND SURFACE DATUM SEP 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 23, 1979	589.47	V	JAN 17, 1980	590.38	S	MAY 18, 1980	591.28	S	SEP 10, 1980	591.99	S
NOV 18	590.14	V	MAR 15	590.60	V	JUL 12	591.47	S			

WELL 04N 26E 26DCD1 SITE NUMBER 433819113191601

FORMERLY SITE ID NO. 433825113192301. DRILLEDUNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN (20 CM), DEPTH 143.0 FT (43.6 M), CASED TO 143 FT (43.6 M). LSD 5,332.25 FT (1,625.270 M) NGVD OF 1929. MAY 22, 1974, WELL HAD FILLED IN TO A DEPTH OF 136.5 FT (41.6 M). MP NO. 1 TOP OF CASING, 1.10 FT (0.335 M) ABOVE LSD (SINCE AUG. 24, 1949).

RECORDS AVAILABLE 1949 - 1953, 1956 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 36.90 FEET BELOW LAND SURFACE DATUM SEP 19, 1969.

LOWEST WATER LEVEL 48.62 FEET BELOW LAND SURFACE DATUM MAR 17, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 03, 1979	44.10	S	JAN 16, 1980	43.58	S	MAY 16, 1980	44.12	S	AUG 05, 1980	45.14	S
NOV 18	42.42	S	MAR 15	44.37	S	JUL 12	44.90	S	SEP 10	42.32	S

WELL 04N 26E 32CBB1 SITE NUMBER 433748113234001

FORMERLY SITE ID NO. 433750113234501. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN (41 CM), DEPTH 253.0 FT (77.1 M), CASED TO 207 FT (63.1 M). LSD 5,371.22 FT (1,637,148 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARYADJUSTMENT OF 1947. RECORDER INSTALLED APR. 30, 1965. RECORDER REMOVED SEPT. 27, 1971. RECORDER INSTALLED JULY 21, 1977. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 1.50 FT (0.457 M) ABOVE LSD (SINCE APR. 30, 1965).

RECORDS AVAILABLE 1958, 1960 - 1964, 1965 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 195.12 FEET BELOW LAND SURFACE DATUM OCT 02, 1969.

LOWEST WATER LEVEL 208.72 FEET BELOW LAND SURFACE DATUM APR 17, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATF	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1979	202.02	DEC 31, 1979	202.69		APR 10, 1980	203.90	JUL 12, 1980	202.35
05	201.94	JAN 05 1980	202.43		15	204.04	15	202.41
10	201.97	10	201.79		16	204.25	20	202.25
15	201.75	15	202.76		20	203.81	25	202.09
19	201.13	20	203.15		25	203.95	31	202.00
20	201.41	25	202.73		30	203.93	AUG 05	201.52
25	201.73	31	203.28		MAY 05	204.09	10	201.62
31	201.90	FEB 05	203.33		10	203.72	15	201.35
NOV 05	202.19	10	203.19		15	203.81	20	201.49
10	201.96	15	203.07		20	204.01	25	201.29
15	202.39	20	202.85		25	203.47	31	201.13
20	202.31	25	203.59		31	203.63	SEP 02	200.96
25	202.09	29	203.59		JUN 05	203.49	05	201.27
26	201.81	MAR 05	203.23		10	203.40	10	201.07
30	202.49	10	203.52		15	203.48	15	200.93
DEC 05	202.41	15	203.48	S	20	203.23	20	200.78
10	202.00	20	203.73		25	202.99	25	200.99
15	202.36	25	203.61		30	202.89	30	200.95
20	202.41	31	203.62		JUL 05	202.72		
25	202.47	APR 05	203.66		10	202.54		

WELL 04N 29E 09DC01 SITE NUMBER 434056113000101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 TO 5 IN (15 TO 13 CM), DEPTH 463 FT (141.1 M), 6-IN (15-CM) CASING 0-440 FT (0-134.1 M), 5-IN (13-CM) CASING 430-463 FT (131.1-141.1 M), PERFORATED 410-130 FT (125.0-131.1 M), OPEN BOTTOM. LSD 4,884.25 FT (1,488.719 M) NGVD OF 1929. RECORDER INSTALLED OCT. 16, 1952. RECORDER REMOVED NOV. 16, 1954. MP NO. 3 TOP OF 6 1/4-IN (16-CM) CASING NORTHEAST SIDE, 1.17 FT (0.357 M) ABOVE LSD (SINCE JUNE 9, 1952).

RECORDS AVAILABLE 1952 - 1954, 1955 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 382.76 FEET BELOW LAND SURFACE DATUM FEB 10, 1972.

LOWEST WATER LEVEL 401.06 FEET BELOW LAND SURFACE DATUM OCT 01, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1979	398.18	S	JAN 22, 1980	398.94	S	APR 17, 1980	398.94	S	JUL 22, 1980	399.55	S
NOV 21	398.67	S	FEB 25	398.94	S	MAY 28	399.13	S	SEP 29	400.06	S
DEC 19	398.73	S	MAR 15	398.98	S	JUN 23	399.36	S			

WELL 04N 30E 07ADB1 SITE NUMBER 434126112550701

FORMERLY SITE ID NO. 434128112551201. DRILLEDOBSERVATION WATER-TABLE IN SNAKE RIVER GROUP, DIAM 12 TO 10 IN (30 TO 25 CM), DEPTH 692 FT (210.9 M), 12-IN (30-CM) CASING 0-388 FT (0-118.3 M), 10-IN (25-CM) CASING 335-587 FT (102.1-178.9 M), CONCRETE SEAL 385-387 FT (117.3-117.9 M). LSD 4,820.50 FT (1,469.288 M) NGVD OF 1929. WELL CAVED TO A DEPTH OF 563 FT (171.6 M). RECORDER INSTALLED MAR. 17, 1951. RECORDER REMOVED JULY 23, 1956. RECORDER INSTALLED JULY 10, 1969. MP NO. 6 TOP OF 12-IN (30-CM) CASING NORTHEAST SIDE, 1.78 FT (0.542M) ABOVE LSD (SINCE JUNE 5, 1952).

RECORDS AVAILABLE 1950, 1951 - 1956, 1957 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 308.24 FEET BELOW LAND SURFACE DATUM JAN 11, 1972.

LOWEST WATER LEVEL 330.27 FEET BELOW LAND SURFACE DATUM JUL 24, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	327.03	DEC 31, 1979	327.48	APR 20, 1980	327.61	JUL 24, 1980	328.51
10	327.09	JAN 05 1980	327.31	25	327.72	25	328.48
15	327.07	10	327.42	30	327.72	30	328.55
19	326.88	15	327.52	MAY 05	327.79	31	328.57
20	327.03	20	327.58	10	327.74	AUG 05	328.56
25	327.10	23	327.60 S	15	327.79	10	328.67
31	327.19	FEB 26	327.74 S	20	327.88	15	328.65
NOV 05	327.32	29	327.75	25	327.81	20	328.74
10	327.22	MAR 03	327.57	31	327.95	25	328.75
15	327.38	05	327.61	JUN 05	327.96	31	328.71
20	327.35	10	327.69	10	327.98	SEP 05	328.77
25	327.30	15	327.71	15	328.14	08	328.79
30	327.40	20	327.74	20	328.12	10	328.71
DEC 05	327.41	25	327.72	25	328.16	15	328.70
10	327.31	28	327.84	30	328.25	20	328.64
15	327.37	31	327.88	JUL 05	328.27	25	328.70
16	327.53	APR 05	327.62	10	328.35	30	328.64
20	327.42	10	327.64	15	328.40		
25	327.48	15	327.71	20	328.46		

WELL 04N 30E 22BDD1 SITE NUMBER 433937112515401

FORMERLY SITE ID NO. 433938112520001. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN (15 TO 13 CM), DEPTH 498.0 FT (151.8 M), 6-IN (15-CM) CASING 0-405.9 FT (0-123.7 M), 5-IN (13-CM) CASING 365.2-495.8 FT (111.3-151.1 M), PERFORATED 437.8-444.8 FT (133.4-135.6 M). LSD 4,834.73 FT (1,473.626 M) NGVD OF 1929. RECORDER INSTALLED JUNE 6, 1952. RECORDER REMOVED SEPT. 30, 1954. MP NO. 4 TOP OF 6 1/4-IN (16-CM) CASINGWITH FLANGE NORTHEAST SIDE, 2.31 FT (0.704 M) ABOVE LSD (SINCE JUNE 5, 1952).

RECORDS AVAILABLE 1951, 1952 - 1954, 1955 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 342.25 FEET BELOW LAND SURFACE DATUM APR 24, 1972.

LOWEST WATER LEVEL 355.23 FEET BELOW LAND SURFACE DATUM SEP 13, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 13, 1979	353.54 S	JAN 23, 1980	354.42 S	APR 18, 1980	354.09 S	JUL 25, 1980	354.52 S
NOV 20	354.14 S	FEB 26	354.28 S	MAY 30	354.14 S	SEP 23	354.99 S
DEC 18	354.05 S	MAR 17	354.15 S	JUN 24	354.18 S		

WELL 04N 31E 16ADC1 SITE NUMBER 434031112453701

FORMERLY SITE ID NO. 434031112452701, WELL NO. 04N 31E 16ADD1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 TO 5 IN (15 TO 13 CM), DEPTH 475.0 FT (144.8 M), 6-IN (15-CM) CASING 0-403.7 FT (0-123.0 M), 5-IN (13-CM) CASING 395-487 FT (120.4-148.4 M), PERFORATED 452-487.1 FT (137.8-148.4 M), LSD 4,899.49 FT (1,493.486 M) NGVD OF 1929. SEPT. 12, 1952, WELL WAS DEEPENED AND RECASED, DEPTH 620.0 FT (189.0 M), 4-IN (10-CM) CASING 0-532.0 FT (0-162.2 M). RECORDER INSTALLED MAR. 17, 1953, RECORDER REMOVED APR. 7, 1953.MP NO. 2 CHISELED X IN TOP OF 4-IN (10-CM) CASING NORTHEAST SIDE, 1.84 FT (0.561 M) ABOVE LSD (SINCE SEPT. 18, 1952).

RECORDS AVAILABLE 1950 - 1952, 1953, 1954 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 406.61 FEET BELOW LAND SURFACE DATUM FEB 27, 1973.

LOWEST WATER LEVEL 414.59 FEET BELOW LAND SURFACE DATUM SEP 23, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1979	413.99	S	JAN 23, 1980	413.13	S	APR 16, 1980	412.76	S	JUL 25, 1980	414.14	S
NOV 20	413.76	S	FEB 26	412.81	S	MAY 30	413.19	S	SEP 23	414.59	S
DEC 18	413.18	S	MAR 17	412.76	S	JUN 24	413.44	S			

WELL 03N 26E 22AHA1 SITE NUMBER 433445113202801

FORMERLY SITE ID NO. 433445113203401, DRILLEDUNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN (51 CM), REPORTED DEPTH 819 FT (249.6 M), 20-IN (51-CM) CASING TO 387 FT (118.0 M). MAY 5, 1970, WELL WAS DEEPENED TO A DEPTH OF 1,075 FT (327.7 M), CAVED IN TO 1,025 FT (312.4 M), 4-IN (10-CM) CASING 0-969.5 FT (0-295.5 M). LSD 5,311.63 FT (1,618.985 M) NGVD OF 1929. MP NO. 1 TOP OF 2-IN (5-CM) PIPE COUPLING SOUTH SIDE, 0.65 FT (0.198 M) ABOVE LSD (SINCE SEPT. 17, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 790.10 FEET BELOW LAND SURFACE DATUM APR 21, 1972.

LOWEST WATER LEVEL 800.04 FEET BELOW LAND SURFACE DATUM SEP 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 09, 1979	798.34 S	S	JAN 17, 1980	797.77	S	MAY 10, 1980	798.83	S	SEP 10, 1980	800.04	S
NOV 18	797.95	S	MAR 18	798.37	S	JUL 12	799.42 S	S			

WELL 03N 29E 14ADO1 SITE NUMBER 433520112572601

FORMERLY SITE ID NO. 433523112572601, WELL NO. 03N 29E 14ADA1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 8 IN (20 CM), DEPTH 588.0 FT (179.2 M), CASED TO 590 FT (179.8 M), PERFORATED 447-588 FT (136.2-179.2 M) LSD 4,917.64 FT (1,498.897 M) NGVD OF 1929. RECORDER INSTALLED JAN. 7, 1950. RECORDER REMOVED JULY 7, 1960. RECORDER INSTALLED JULY 11, 1963. MP NO. 2 TOP OF CASING AT PAINTED SPOT NORTH SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE DEC. 10, 1949).

RECORDS AVAILABLE 1949, 1950 - 1960, 1962, 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 447.52 FEET BELOW LAND SURFACE DATUM MAR 01, 1953.

LOWEST WATER LEVEL 458.90 FEET BELOW LAND SURFACE DATUM SEP 30, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1979	458.32		DEC 31, 1979	458.11		APR 15, 1980	458.05		JUL 11, 1980	458.64	
10	458.35		JAN 05 1980	457.90		16	458.26		15	458.48	
15	458.23		10	457.50		20	457.93		20	458.48	
19	457.90		15	458.05		25	458.10		25	458.46	
20	457.99		19	458.17		30	458.02		31	458.53	
25	458.11		22	458.22		MAY 05	458.10		AUG 05	458.40	
31	458.14		25	457.90		10	457.88		10	458.55	
NOV 05	458.27		31	458.26		15	458.02		15	458.57	
10	458.09		FEB 26	458.05		20	458.20		20	458.69	
12	458.30		29	458.03		25	457.92		25	458.64	
22	458.24		MAR 05	457.73		31	458.15		31	458.63	
25	458.05		10	457.92		JUN 05	458.19		SEP 05	458.85	
27	458.42		11	457.66		10	458.17		10	458.75	
30	458.17	S	15	457.85		15	458.35		15	458.75	
DEC 05	458.20		20	457.95		20	458.24		20	458.77	
10	457.88		25	457.84		25	458.39		25	458.89	
15	458.11		31	457.85		30	458.38		30	458.90	
20	458.08		APR 05	457.80		JUL 05	458.45				
25	458.10		10	457.95		10	458.53				

WELL 03N 29E 19CAA1 SITE NUMBER 433422113031701

FORMERLY SITE ID NO. 433423113031901, DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 6 IN (15 CM), DEPTH 657 FT (200.2 M), CASED TO 657 FT (200.2 M), PERFORATED 619-633 FT (188.7-192.9 M), 644-657 FT (196.3-200.2 M). LSD 5,049.20 FT (1,538.996 M) NGVD OF 1929. RECORDER INSTALLED AUG. 10, 1955. RECORDER REMOVED MAR. 13, 1956. RECORDER INSTALLED JAN. 31, 1961. RECORDER REMOVED JAN. 2, 1962. MP NO. 2 TOP OF 6-IN (15-CM) CASING NORTHEAST SIDE, 1.69 FT (0.515 M) ABOVE LSD (SINCE JUNE 21, 1952).

RECORDS AVAILABLE 1951 - 1954, 1955 - 1956, 1957 - 1960, 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 510.64 FEET BELOW LAND SURFACE DATUM MAR 22, 1965.

LOWEST WATER LEVEL 610.00 FEET BELOW LAND SURFACE DATUM SEP 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 10, 1979	609.80	S	JAN 22, 1980	609.92	S	APR 16, 1980	609.83	S	JUL 21, 1980	609.84	S
NOV 21	609.94	S	FEB 22	609.42	S	MAY 28	609.56	S	SEP 25	610.00	S
DEC 20	609.50	S	MAR 18	609.26	S	JUN 23	609.59	S			

WELL 03N 30E 12CDD1 SITE NUMBER 433543112493801

FORMERLY SITE ID NO. 433542112494101. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 500 FT (152.4 M), CASED TO 500 FT (152.4 M), PERFORATED 475-497 FT (144.7-151.5 M). LSD 4,938.73 FT (1,505.325 M) NGVD OF 1929. APR. 29, 1969, SURFACE WATER ENTERED WELL AT LSD AND PLUGGED WELL TO AQUIFER. JAN.22, 1973, WELL HAD FILLED IN TO A DEPTH OF 452.8 FT (138.0 M). JULY 31, 1975, WELL WAS CLEANED AND SURGED TO A DEPTH OF 500 FT (152.4 M). DEC. 1, 1975, WELL HAD FILLED IN TO A DEPTH OF 494 FT (150.6 M). RECORDER INSTALLED OCT. 24, 1951. RECORDER REMOVED NOV. 29, 1951. MP NO. 3 TOP OF CASING, 1.37 FT (0.418 M) ABOVE LSD (SINCE OCT. 29, 1952).

RECORDS AVAILABLE 1950, 1951, 1952 - 1953, 1954 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 460.77 FEET BELOW LAND SURFACE DATUM APR 22, 1976.

LOWEST WATER LEVEL 467.63 FEET BELOW LAND SURFACE DATUM SEP 29, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 18, 1979	466.66	S	JAN 23, 1980	467.01	S	APR 18, 1980	466.71	S	JUL 25, 1980	467.06	S
NOV 23	466.74	S	FEB 22	466.66	S	MAY 30	466.78	S	SEP 29	467.63	S
DEC 20	466.66	S	MAR 18	466.56	S	JUN 27	467.05	S			

WELL 03N 30E 31AAD1 SITE NUMBER 433253112545901

FORMERLY SITE ID NO. 433253112550301. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN (20 TO 15 CM), DEPTH 676 FT (206.0 M), 8-IN (20-CM) CASING 0-406 FT (0-123.8 M), 6-IN (15-CM) CASING 399-676 FT (121.6-206.0 M), PERFORATED 471-481 FT (143.6-146.6 M), 512-553 FT (156.0-168.6 M). LSD 4,915.85 FT (1,498.351 M) NGVD OF 1929. RECORDER INSTALLED OCT. 17, 1952. RECORDER REMOVED AUG. 4, 1955. RECORDER INSTALLED JUNE 30, 1960. RECORDER REMOVED OCT. 10, 1961. MP NO. 2 TOP OF 8-IN (20-CM) CASING NORTHEAST SIDE, 1.73 FT (0.527 M) ABOVE LSD (SINCE DEC. 27, 1951).

RECORDS AVAILABLE 1951, 1952 - 1955, 1956 - 1959, 1960 - 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 453.14 FEET BELOW LAND SURFACE DATUM APR 27, 1953.

LOWEST WATER LEVEL 461.37 FEET BELOW LAND SURFACE DATUM SEP 29, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 10, 1979	460.86	S	JAN 23, 1980	461.02	S	APR 17, 1980	460.81	S	JUL 25, 1980	460.91	S
NOV 23	460.64	S	FEB 22	460.61	S	MAY 21	460.60	S	AUG 13	460.94	S
DEC 20	460.52	S	MAR 18	460.38	S	JUN 27	461.12	S	SEP 29	461.37	S

WELL 03N 32E 29DDC1 SITE NUMBER 433320112432301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 TO 5 IN (15 TO 13 CM), DEPTH 704 FT (214.6 M), 6-IN (15-CM) CASING 0-434 FT (0-132.3 M), 5-IN (13-CM) CASING 427-704 FT (130.2-214.6 M), PERFORATED 675-696 FT (205.7-212.1 M). LSD 5,125.82 FT (1,562.350 M) NGVD OF 1929. RECORDER INSTALLED MAY 14, 1950. RECORDER REMOVED OCT.4, 1954. RECORDER INSTALLED MAY 24, 1961. RECORDER REMOVED JAN. 4, 1962. MP NO. 2 PAINTED CROSS TOP OF 6-IN (15-CM) CASING NORTH SIDE, 1.90 FT (0.579 M) ABOVE LSD (SINCE MAY 10, 1950).

RECORDS AVAILABLE 1950 - 1954, 1955 - 1960, 1961 - 1962, 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 651.10 FEET BELOW LAND SURFACE DATUM JAN 07, 1950.

LOWEST WATER LEVEL 659.10 FEET BELOW LAND SURFACE DATUM SEP 25, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 08, 1979	658.74	S	JAN 23, 1980	657.84	S	APR 14, 1980	657.43	S	JUL 23, 1980	658.23	S
NOV 20	658.42	S	FEB 22	657.45	S	MAY 28	657.79	S	SEP 25	659.10	S
DEC 27	657.99	S	MAR 18	657.31	S	JUN 24	658.04	S			

WELL 02N 26E 22DDA1 SITE NUMBER 432854113201001

FORMERLY SITE ID NO. 432853113201201. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 6 IN (15 CM). DEPTH 719.4 FT (219.3 M). CASED TO 719.4 FT (219.3 M). PERFORATED 670-675 FT (204.2-205.7 M). 712-717 FT (217.0-218.5 M). ORIGINAL WELL WAS DRILLED TO A DEPTH OF 1.053 FT (321.0 M). CASED TO 728 FT (221.9 M). SEPT. 10. 1971. INSTALLED A 6-IN (15-CM) INFLATABLE PACKER 719.4-721.8 FT (219.3-220.0 M) WELDED TO A 2-IN (5-CM) PIPE. INSTALLED A 1-IN (2.5-CM) MEASURING PIPE 0-719.4 FT (0-219.3 M). PERFORATED 698.4-719.4 FT (212.9-219.3 M). LSD 5.361.81 FT (1.634.279 M) NGVD OF 1929. SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 1-IN (2.5-CM) PIPE COUPLING. 2.09 FT (0.637 M) ABOVE LSD (SINCE SEPT. 10. 1971).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 660.66 FEET BELOW LAND SURFACE DATUM JUL 24. 1972.

LOWEST WATER LEVEL 663.74 FEET BELOW LAND SURFACE DATUM NOV 15. 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 03. 1979	662.91	S	JAN 23. 1980	661.98	S	MAY 18. 1980	662.31	S	AUG 06. 1980	662.28	S
NOV 18	662.98	S	MAR 18	662.48	S	JUL 12	662.30	S	SEP 10	662.40	S

WELL 02N 26E 22DDA2 SITE NUMBER 432854113201002

FORMERLY SITE ID NO. 432853113201202. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 6 IN (15 CM). DEPTH 1.053 FT (321.0 M). CASED TO 728 FT (221.9 M). SEPT. 10. 1971. INSTALLED A 6-IN (15-CM) INFLATABLE PACKER 719.4-721.8 FT(219.3-220.0 M) WELDED TO A 2-IN (5-CM) PIPE TO SEAL OFF THE PERCHED WATER ZONE. 2-IN (5-CM) PIPE PERFORATED 1.030-1.051 FT (313.9-320.3 M). LSD 5.361.81 FT (1.634.279 M) NGVD OF 1929. SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 2 TOP OF 2-IN (5-CM) PIPE COUPLING. 2.12 FT (0.646 M) ABOVE LSD (SINCE SEPT. 10. 1971).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 979.07 FEET BELOW LAND SURFACE DATUM MAY 24. 1972.

LOWEST WATER LEVEL 983.33 FEET BELOW LAND SURFACE DATUM SEP 10. 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 03. 1979	983.00	S	JAN 23. 1980	981.75	V	MAY 18. 1980	983.11	S	AUG 06. 1980	983.21	S
NOV 18	983.12	S	MAR 18	983.06	S	JUL 12	983.23	S	SEP 10	983.33	S

WELL 02N 27E 02DDC1 SITE NUMBER 433121113115801

FORMERLY SITE ID NO. 433122113120301. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 6 IN (15 CM). DEPTH 812 FT (247.5 M). CASED TO 812 FT (247.5 M). PERFORATED 782-812 FT (238.4-247.5 M). OPEN BOTTOM. LSD 5.195.44 FT(1.583.570 M) NGVD OF 1929. RECORDER INSTALLED JULY 18. 1951. RECORDER REMOVED OCT. 21. 1953. RECORDER INSTALLED APR. 6. 1966. RECORDER REMOVED SEPT. 14. 1966. RECORDER INSTALLED JULY 14. 1967. RECORDER REMOVED DEC. 13. 1967. MP NO. 2 TOP OF 6-IN (15-CM) CASING. 1.88 FT (0.573 M) ABOVE LSD (SINCE MAY 10. 1951).

RECORDS AVAILABLE 1950. 1951 - 1953. 1954 - 1960. 1964 - 1965. 1966 - 1967. 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 750.70 FEET BELOW LAND SURFACE DATUM DEC 27. 1950.

LOWEST WATER LEVEL 765.65 FEET BELOW LAND SURFACE DATUM MAY 26. 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11. 1979	765.39	S	JAN 25. 1980	765.10	S	APR 16. 1980	765.56	S	JUL 21. 1980	765.35	S
NOV 27	765.45	S	MAR 01	765.39	S	MAY 26	765.65	S	AUG 19	765.50	S
DEC 19	765.18	S	19	765.33	S	JUN 25	765.44	S	SEP 26	765.34	S

WELL 02N 28E 13ADD1 SITE NUMBER 433005113032801

FORMERLY SITE ID NO. 433006113033201, WELL NO. 02N 28E 13AD 1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 646 FT (196.9 M) CASED TO 576 FT (175.6 M). LSD 5,028.91 FT (1,532.812 M) NGVD OF 1929. MP NO. 3 TOP OF 1-IN (2.54-CM) PIPE COUPLING, 2.68 FT (0.817 M) ABOVE LSD (SINCE MAR. 1, 1976).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 585.27 FEET BELOW LAND SURFACE DATUM JUN 25, 1975.

LOWEST WATER LEVEL 600.92 FEET BELOW LAND SURFACE DATUM JUL 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 12, 1979	600.25	S	JAN 17, 1980	600.32	S	APR 21, 1980	600.35	S	JUL 16, 1980	600.92	S
NOV 28	600.25	S	FEB 26	600.75	S	MAY 16	600.57	S			
DEC 20	600.38	S	MAR 21	600.36	S	JUN 20	600.75	S			

WELL 02N 28E 35ADA1 SITE NUMBER 432740113044501

FORMERLY SITE ID NO. 432733113043901, WELL NO. 02N 28E 35ADD1. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 9 TO 6 IN (20 TO 15 CM), DEPTH 654.1 FT (199.37 M), 8-IN (20-CM) CASING 0-241 FT (0-73.5 M), 6-IN (15-CM) CASING 235-652 FT (71.6-198.7 M), PERFORATED 618-648 FT (188.4-197.5 M), LEAD SEAL. LSD 5,030.87 FT (1,533.409 M) NGVD OF 1929. RECORDER INSTALLED NOV. 26, 1952. RECORDER REMOVED AUG. 2, 1956. RECORDERINSTALLED JUNE 29, 1965. RECORDER REMOVED MAY 15, 1968. RECORDER INSTALLED JUNE 2, 1971. MP NO.6 TOP OF 8-IN (20-CM) CASING, 2.31 FT (0.704 M) ABOVE LSD (SINCE JUNE 2, 1971).

RECORDS AVAILABLE 1951, 1952 - 1956, 1957 - 1964, 1965 - 1968, 1969 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 599.78 FEET BELOW LAND SURFACE DATUM MAR 01, 1955.

LOWEST WATER LEVEL 607.30 FEET BELOW LAND SURFACE DATUM AUG 20, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	606.95	JAN 05, 1980	606.42	APR 10, 1980	606.87	JUN 30, 1980	606.90
10	606.92	10	606.08	15	606.94	JUL 05	606.93
15	606.82	15	606.66	16	607.07	10	607.00
16	606.91	20	606.79	20	606.80	15	607.01
20	606.63	25	606.51	25	607.00	20	607.02
25	606.63	31	606.80	30	607.00	25	607.11
31	606.65	FEB 05	606.75	MAY 05	607.05	31	607.16
NOV 05	606.78	10	606.66	10	606.93	AUG 05	607.10
10	606.57	15	606.72	15	606.99	10	607.26
15	606.70	18	606.40	20	607.10	15	607.20
20	606.65	20	606.60	25	606.93	20	607.30
24	606.29	25	606.82	31	607.04	25	607.22
25	606.53	29	606.84	JUN 05	607.01	31	607.15
30	606.62	MAR 05	606.61	07	607.17	SEP 05	607.19
DEC 05	606.60	10	606.72	10	606.93	10	607.05
10	606.34	15	606.73	15	607.08	15	607.04
15	606.50	20	606.79	20	606.92	20	606.94
20	606.53	25	606.71	23	606.72	25	606.98
25	606.61	31	606.75	25	606.91	30	606.86
31	606.59	APR 05	606.68	26	606.84		

WELL 01N 29E 30BBD1 SITE NUMBER 432336113064201

FORMERLY SITE ID NO. 432339113064501. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 704 FT (214.6 M), CASED TO 704 FT (214.6 M), PERFORATED 673-704 FT (205.1-214.6 M), OPEN BOTTOM, LSD 5,066.89 FT(1,544.388 M) NGVD OF 1929. RECORDER INSTALLED JULY 30, 1965. RECORDER REMOVED JULY 22, 1966. MP NO. 2 TOP OF CASING NORTHEAST SIDE, 2.11 FT (0.643 M) ABOVE LSD (SINCE OCT. 15, 1950).

RECORDS AVAILABLE 1950 - 1951, 1952 - 1964, 1965 - 1966, 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 646.52 FEET BELOW LAND SURFACE DATUM NOV 14, 1952.

LOWEST WATER LEVEL 652.29 FEET BELOW LAND SURFACE DATUM AUG 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 11, 1979	651.77	S	JAN 25, 1980	651.56	S	APR 16, 1980	651.96	S	JUL 21, 1980	652.04	S
NOV 27	651.70	S	MAR 01	651.69	S	MAY 27	651.93	S	AUG 19	652.29	S
DEC 19	651.49	S	19	651.73	S	JUN 25	651.83	S	SEP 26	651.87	S

WELL 01S 27E 14DCC1 SITE NUMBER 431946113161401

FORMERLY SITE ID NO. 431948113161801. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN (10 CM), DEPTH 1,041 FT (317.3 M), CASED TO 1,031 FT (314.2 M), PERFORATED 1,011-1,031 FT (308.2-314.2 M). LSD 5,158.86 FT (1,572.420 M) NGVD OF 1929. RECORDER INSTALLED JULY 23, 1971. RECORDER REMOVED MAY 4, 1972. MP NO. 3 TOP OF2-IN (5.1-CM) NIPPLE NORTHEAST SIDE, 1.59 FT (0.485 M) ABOVE LSD (SINCE MAY 4, 1972).

RECORDS AVAILABLE 1970, 1971 - 1972, 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 990.00 FEET BELOW LAND SURFACE DATUM APR 27, 1973.

LOWEST WATER LEVEL 1000.00 FEET BELOW LAND SURFACE DATUM SEP 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 03, 1979	998.45	S	JAN 23, 1980	998.37	V	MAY 18, 1980	999.66	S	AUG 06, 1980	999.84	S
NOV 18	998.68	S	MAR 18	999.34	S	JUL 12	999.69	S	SEP 10	1000.00	S

WELL 01N 14E 36DAD1 SITE NUMBER 432228114421601

DRILLED UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 12 IN (30 CM), REPORTED DEPTH 188 FT (57 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,106 FT (1,556 M) NGVD OF 1929. MP NO. 1 TOP OF CASING SOUTH SIDE, 0.70 FT (0.213 M) ABOVELSD (SINCE MAR. 24, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 16.79 FEET BELOW LAND SURFACE DATUM MAY 22, 1978.

LOWEST WATER LEVEL 32.28 FEET BELOW LAND SURFACE DATUM JUL 24, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	30.58	S	DEC 18, 1979	24.51	S	MAY 17, 1980	19.02	S	SEP 12, 1980	27.05	S
23	27.64	S	JAN 22 1980	23.05	S	JUL 08	24.85	S			
NOV 20	25.79	S	MAR 25	21.99	S	AUG 18	28.47	S			

WELL 01S 12E 13BAA1 SITE NUMBER 432033114584701

DRILLED UNUSED ARTESIAN WELL IN SAND OF QUATERNARY AGE, DIAM 3 IN (8 CM), REPORTED DEPTH 435 FT (132.6 M), CASED TO 135 FT (41.2 M). LSD 5,090.70 FT (1,551.645 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MAR. 20, 1972, WELL HAD FILLED IN TO A DEPTH OF 218.2 FT (66.5 M). MP NO. 1 TOP OF CASING EAST SIDE, 2.30 FT (0.701 M) ABOVE LSD (SINCE SEPT. 12, 1957).

RECORDS AVAILABLE 1957 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.60 FEET BELOW LAND SURFACE DATUM APR 26, 1965.

LOWEST WATER LEVEL 13.54 FEET BELOW LAND SURFACE DATUM OCT 02, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	13.54	S	DEC 18, 1979	12.44	S	MAY 17, 1980	9.06	S	SEP 12, 1980	11.96	S
23	13.20	S	JAN 15 1980	11.79	S	JUL 08	8.66	S			
NOV 20	12.85	S	MAR 25	10.97	S	AUG 18	10.89	S			

WELL 01S 12E 22BBB1 SITE NUMBER 431940115013301

DUG UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 8 IN (20 CM), DEPTH 30 FT (8.5 M), CASED TO 30 FT (8.5 M). LSD ABOUT 5,103 FT (1,555 M) NGVD OF 1929. MAR. 16, 1977, WELL HAD FILLED IN TO A DEPTH OF 13.9 FT (4.2M). MP NO. 1 TOP OF 8-IN (20-CM) CASING EAST SIDE, 2.00 FT (0.609 M) ABOVE LSD (SINCE SEPT. 16, 1957).

RECORDS AVAILABLE 1957, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.81 FEET BELOW LAND SURFACE DATUM APR 17, 1978.

LOWEST WATER LEVEL 8.16 FEET BELOW LAND SURFACE DATUM FEB 27, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	8.04	S	DEC 18, 1979	7.36	S	MAY 17, 1980	3.20	S	SEP 12, 1980	5.67	S
23	7.38	S	JAN 15 1980	7.37	S	JUL 08	4.66	S			
NOV 20	7.44	S	MAR 25	5.88	S	AUG 18	6.65	S			

WELL 01S 13E 16BBB1 SITE NUMBER 432032114554201

DRIVEN OBSERVATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 1 1/4 IN (3.2 CM), DEPTH 13.0 FT (4.0 M), CASED TO 13.0 FT (4.0 M), WELL POINT 10.5-13.0 FT (3.2-4.0 M). LSD ABOUT 5,085 FT (1,550 M) NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN (3.2-CM) CASING 2.30 FT (0.701 M) ABOVE LSD (SINCE MAR. 16, 1978).

RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.25 FEET BELOW LAND SURFACE DATUM MAY 17, 1980.

LOWEST WATER LEVEL 6.50 FEET BELOW LAND SURFACE DATUM OCT 23, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT. 02, 1979	6.17	S	DEC 18, 1979	5.10	S	MAY 17, 1980	3.25	S	SEP 12, 1980	4.59	S
23	6.50	S	JAN 15 1980	4.68	S	JUL 08	3.37	S			
NOV 20	5.81	S	MAR 25	3.60	S	AUG 18	3.98	S			

WELL 01S 13E 23AAB1 SITE NUMBER 431934114522501

DRILLED STOCK ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN (15 CM), REPORTED DEPTH 195 FT (59.4 M), CASED TO 125 FT (38.1 M). LSD ABOUT5,060 FT (1,542 M) NGVD OF 1929. MP NO. 1 TOP OF WELL SEAL WEST SIDE, 2.30 FT (0.701 M) ABOVE LSD (SINCE DEC. 10, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.40 FEET ABOVE LAND SURFACE DATUM MAR 10, 1977.

LOWEST WATER LEVEL 31.11 FEET BELOW LAND SURFACE DATUM AUG 29, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	24.53	S	DEC 18, 1979	14.44	S	MAY 17, 1980	4.75	S	SEP 12, 1980	24.02	S
23	20.81	S	JAN 22 1980	11.13	S	JUL 08	6.77	S			
NOV 20	17.38	S	MAR 25	7.03	S	AUG 18	25.12	S			

WELL 01S 14E 07DDD1 SITE NUMBER 432035114495101

DUG UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 10.1 FT (3.1 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,057 FT (1,541 M) NGVD OF 1929. MAR. 15, 1978 INSTALLED WELL POINT, DIAM 1 1/4 IN (3.2 CM),DEPTH 14.2 FT (4.3 M), CASED TO 11.7 FT (0«L 7E, WELL POINT 11.7-14.2 FT (3.6-4.3 M), SCREEN 40 MESH (1.01 CM). MP NO. 3 TOP OF 1 1/4-IN (3.2-CM) CASING, 4.30 FT (1.311 M) ABOVE LSD (SINCE MAR. 15, 1978).

RECORDS AVAILABLE 1957, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.99 FEET BELOW LAND SURFACE DATUM APR 17, 1978.

LOWEST WATER LEVEL WELL DRY JUL 14, 1977; AUG 16, 1977; SEP 09, 1977; SEP 20, 1977, SEP 30, 1977; OCT 14, 1977; NOV 10, 1977; DEC 16, 1977; JAN 16, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	8.20	S	DEC 18, 1979	8.97	S	MAY 17, 1980	2.95	S	SEP 12, 1980	7.27	S
23	7.77	S	JAN 15 1980	8.90	S	JUL 08	4.33	S			
NOV 20	8.87	S	MAR 25	8.33	S	AUG 18	6.68	S			

WELL 01S 14E 08DDB1 SITE NUMBER 432043114485001

DRILLED STOCK ARTESIAN WELL IN SAND OF QUATERNARY AGE, DIAM 3 TO 2 IN (8 TO 5 CM), REPORTED DEPTH 320 FT (97.5 M), CASED TO 140 FT (42.7 M). LSD ABOUT 5,060 FT (1,542 M) NGVD OF 1929. MP NO. 2 TOP OF 2-IN (5-CM) INNER CASING NORTH SIDE ATLSD (SINCE JULY 14, 1977).

RECORDS AVAILABLE 1957 - 1958, 1959 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 18.72 FEET ABOVE LAND SURFACE DATUM MAY 15, 1958.

LOWEST WATER LEVEL 19.43 FEET BELOW LAND SURFACE DATUM JUL 24, 1979.

WATER LEVELS IN FEET ABOVE OR BELOW(-) LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 1979	-12.58 S	DEC 18, 1979	-3.75 S	MAY 17, 1980	3.81 E S	SEP 12, 1980	-13.06 S
23	-9.88 S	JAN 15 1980	-1.40 S	JUL 08	-0.29 S		
NOV 20	-6.50 S	MAR 25	2.01 E S	AUG 18	-18.13 S		

WELL 01S 14E 24ADA1 SITE NUMBER 431924114435501

DRIVEN OBSERVATION WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 1 1/4 IN (3.2 CM), DEPTH 12.2 FT (3.7 M), CASED TO 12.2 FT (3.7 M), WELL POINT 9.0-12.0 FT (2.7-3.7 M). LSD ABOUT 5,030 FT (1,533 M) NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN (3.2-CM) PIPE, 3.10 FT (0.944 M) ABOVE LSD (SINCE MAR. 15, 1978).

RECORDS AVAILABLE 1978 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.07 FEET BELOW LAND SURFACE DATUM APR 16, 1979.

LOWEST WATER LEVEL 8.60 FEET BELOW LAND SURFACE DATUM DEC 18, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 1979	8.20 S	DEC 18, 1979	8.60 S	MAY 17, 1980	6.16 S	SEP 12, 1980	7.45 S
23	8.42 S	JAN 15 1980	8.48 S	JUL 08	6.53 S		
NOV 20	8.52 S	MAR 25	7.80 S	AUG 18	7.13 S		

WELL 01S 14E 24DAD1 SITE NUMBER 431908114435801

DRILLED DOMESTIC ARTESIAN WELL IN BRUNEAU FORMATION, DIAM 6 IN (15 CM), REPORTED DEPTH 187 FT (57.0 M), CASED TO 169 FT (51.5 M). LSD ABOUT5,028 FT (1,533 M) NGVD OF 1929. MP NO. 1 TOP OF CASING SOUTH SIDE, 0.90 FT (0.274 M) ABOVE LSD (SINCE DEC. 7, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.15 FEET BELOW LAND SURFACE DATUM APR 15, 1977.

LOWEST WATER LEVEL 56.40 FEET BELOW LAND SURFACE DATUM JUN 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 02, 1979	41.58 S	DEC 18, 1979	35.28 S	MAY 17, 1980	31.80 S	SEP 12, 1980	38.43 S
23	37.47 S	JAN 15 1980	34.60 R S	JUL 08	44.24 S		
NOV 20	31.36 R S	MAR 25	33.05 S	AUG 18	49.10 S		

WELL 01S 14E 28DDC1 SITE NUMBER 431756114473801

DRILLED IRRIGATION ARTESIAN WELL IN BRUNEAU FORMATION, DIAM 20 IN (51 CM), DEPTH 212.1 FT (64.1 M), CASED TO 20 FT (6.1 M). LSD ABOUT 5,040 FT (1,536 M) NGVD OF 1929. RECORDER INSTALLED DEC. 10, 1976. RECORDER CHANGED TO ADR DIGITAL AUG. 26, 1977. RECORDER REMOVED APR. 17, 1978. MP NO. 2 TOP OF 20-IN (51-CM) CASING EAST SIDE, 1.20 FT (0.366 M) ABOVE LSD (SINCE DEC. 10, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.18 FEET BELOW LAND SURFACE DATUM APR 16, 1978.

LOWEST WATER LEVEL 59.89 FEET BELOW LAND SURFACE DATUM AUG 29, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	53.29	S	DEC 18, 1979	39.65	S	MAY 17, 1980	23.31	S	SEP 12, 1980	42.95	S
23	49.81	S	JAN 15 1980	33.47	S	JUL 08	31.16	S			
NOV 20	45.06	S	MAR 25	26.25	S	AUG 18	51.48	S			

WELL 01S 15E 16ABA1 SITE NUMBER 432029114404001

DRILLED STOCK ARTESIAN WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 2 IN (5 CM), REPORTED DEPTH 316 FT (96.3 M), CASED TO 316 FT (96.3 M). LSD ABOUT 5,019 FT (1,530 M) NGVD OF 1929. MP NO. 1 TOP OF 2-IN (5-CM) GALVANIZED TEE WEST SIDE, 3.40 FT(1.036 M) ABOVE LSD (SINCE DEC. 10, 1976).

RECORDS AVAILABLE 1976 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.19 FEET ABOVE LAND SURFACE DATUM FEB 18, 1977.

LOWEST WATER LEVEL 3.71 FEET BELOW LAND SURFACE DATUM OCT 02, 1979.

WATER LEVELS IN FEET ABOVE OR BELOW(-) LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	-3.71	S	DEC 18, 1979	0.34 E	S	MAY 17, 1980	4.00 E	S	SEP 12, 1980	-1.10	S
23	-1.77	S	JAN 15 1980	3.31 E	S	JUL 08	5.21 E	M			
NOV 20	0		MAR 25	5.32 E	M	AUG 18	-0.28	S			

WELL 01S 15E 22AAA1 SITE NUMBER 431938114390901

DUG UNUSED WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 8 IN (20 CM), DEPTH 39.0 FT (11.9 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,994 FT (1,522 M) NGVD OF 1929. JUNE 19, 1979, WELL HAD FILLED IN TO A DEPTH OF 33.7 FT (10.3 M). MP NO. 1 TOP OF CASING EAST SIDE, 1.40 FT (0.427 M) ABOVE LSD (SINCE SEPT. 13, 1957).

RECORDS AVAILABLE 1957, 1961 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.20 FEET ABOVE LAND SURFACE DATUM APR 04, 1974.

LOWEST WATER LEVEL WELL DRY JUL 14, 1978; JUL 24, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 02, 1979	15.36	S	DEC 18, 1979	6.58	S	MAY 17, 1980	3.45	S	SEP 12, 1980	9.73	S
23	8.68	S	JAN 15 1980	5.90	S	JUL 08	16.57	S			
NOV 20	7.32	S	MAR 25	4.52	S	AUG 18	19.42	S			

WELL 07S 39E 09DCC1 SITE NUMBER 424927111541801

DRILLED IRRIGATION WATER-TABLE WELL IN BASALTOF QUATERNARY AGE, DIAM 16 IN (41 CM), DEPTH 130 FT (39.6 M), CASED TO 35 FT (10.7 M). LSD 5,336.64 FT (1,626.608 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 HOLE INSIDE PUMPBASE WEST SIDE, 0.35 FT (0.107 M) ABOVE LSD (SINCE SEPT. 25, 1968).

RECORDS AVAILABLE 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 19.22 FEET BELOW LAND SURFACE DATUM MAY 04, 1971.

LOWEST WATER LEVEL 25.62 FEET BELOW LAND SURFACE DATUM SEP 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 23, 1979	26.42 V S	FEB 05, 1980	25.68 V S	MAY 15, 1980	23.56 V S	SEP 11, 1980	28.75 V S
DEC 11	26.20 V S	MAR 25	23.73 V S	JUL 16	29.15 P S		

WELL 07S 39E 10CCD1 SITE NUMBER 424926111532601

DRILLED UNUSED WATER-TABLE WELL IN BASALT OF QUATERNARY AGE, DIAM 15 IN (38 CM), DEPTH 68.2 FT (20.8 M), CASED TO 6 FT (1.8 M). LSD 5,353.71FT (1,631.812 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED OCT. 20, 1968. RECORDER REMOVED SEPT. 1, 1971. DIGITAL RECORDER INSTALLED JULY 12, 1977. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 1.20 FT (0.366 M) ABOVE LSD (SINCE OCT. 3, 1968).

RECORDS AVAILABLE 1968 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.52 FEET BELOW LAND SURFACE DATUM MAY 08, 1971.

LOWEST WATER LEVEL 40.43 FEET BELOW LAND SURFACE DATUM AUG 20, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	38.50	JAN 05, 1980	37.75	MAR 10, 1980	25.21	MAY 14, 1980	22.69
10	38.53	10	37.76	15	22.71	AUG 31	34.36
15	38.51	15	37.31	20	24.26	SEP 05	34.55
20	38.40	20	32.64	25	24.37	10	33.75
25	38.55	25	33.59	31	25.57	15	31.97
31	38.62	31	34.47	APR 05	25.81	20	31.40
NOV 01	38.66	FEB 05	35.01	10	26.34	21	31.32
05	38.03	10	35.53	15	27.55	23	31.32
08	38.07	15	35.86	20	28.69	25	31.39
DEC 15	37.13	20	33.58	25	27.74	30	31.71
20	37.34	25	31.96	30	26.33		
25	37.36	29	29.55	MAY 05	26.64		
31	37.58	MAR 05	25.50	10	25.44		

WELL 08S 42E 17CAB1 SITE NUMBER 424340111344101

DRILLED UNUSED WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 119.4 FT (36.4 M), CASED TO 16 FT (4.9 M). LSD 6,095.6 FT (1,857.94 M) NGVD OF 1929. RECORDER INSTALLED NOV. 5, 1967. RECORDER REMOVED MAY 31, 1978. MP NO. 1 TOP OF 6-IN (15-CM) CASING, 0.40 FT (0.122 M) ABOVE LSD (SINCE NOV. 5, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 92.19 FEET BELOW LAND SURFACE DATUM MAY 06, 1976.

LOWEST WATER LEVEL 105.57 FEET BELOW LAND SURFACE DATUM SEP 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 14, 1980	98.39 S	SEP 11, 1980	105.57 S

WELL 09S 39E 02CBC1 SITE NUMBER 423956111515801

DRILLED UNUSED WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 96.2 FT (29.3 M), CASING DEPTH NOT AVAILABLE. LSD 5,480.28 FT (1,670.389 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. OCT. 23, 1979, WELL HAD FILLED IN TO A DEPTH OF 89.3 FT (27.2 M). RECORDER INSTALLED NOV. 5, 1967. RECORDER REMOVED SEPT. 2, 1971. MP NO. 1 TOP OF 6-IN (15-CM) CASING, 0.70 FT (0.213 M) ABOVE LSD (SINCE AUG. 29, 1967).

RECORDS AVAILABLE 1967 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 56.87 FEET BELOW LAND SURFACE DATUM APR 19, 1979.

LOWEST WATER LEVEL WELL DRY SEP 25, 1978; SEP 11, 1979; OCT 23, 1979; SEP 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 23, 1979	DRY		MAR 25, 1980	86.94	S	SEP 10, 1980	DRY

WELL 09S 40E 13ACB1 SITE NUMBER 423843111433901

DRILLED UNUSED WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 8 IN (20 CM), REPORTED DEPTH 303 FT (92.4 M), CASING DEPTH NOT AVAILABLE. LSD 5,710.89 FT (1,740.679 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF1947. MP NO. 1 HOLE IN CASING COVER SOUTHWEST SIDE, 0.40 FT (0.122 M) ABOVE LSD (SINCE AUG. 29, 1967).

RECORDS AVAILABLE 1967 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 264.79 FEET BELOW LAND SURFACE DATUM SEP 24, 1970.

LOWEST WATER LEVEL 269.83 FEET BELOW LAND SURFACE DATUM OCT 07, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 23, 1979	266.98	S	FEB 06, 1980	269.39	S	MAY 15, 1980	268.36	S	SEP 10, 1980	266.42	S
DEC 11	267.69	S	MAR 25	268.47	S						

WELL 09S 40E 20BDB1 SITE NUMBER 423753111484501

DRILLED IRRIGATION WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 16 IN (41 CM), DEPTH 243 FT (74.1 M), CASED TO 193 FT (58.8 M). LSD 5,567.81 FT (1,697.068 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF1947. MP NO. 1 TOP OF HOLE FOR AIRLINE GAGE INSIDE PUMPBASE NORTH SIDE, 0.90 FT (0.274 M) ABOVE LSD (SINCE AUG. 23, 1967).

RECORDS AVAILABLE 1967 - 1968, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 139.80 FEET BELOW LAND SURFACE DATUM SEP 10, 1980.

LOWEST WATER LEVEL 144.24 FEET BELOW LAND SURFACE DATUM JUL 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
AUG 23, 1967	140.77	S	FEB 06, 1980	144.20	V S	MAY 15, 1980	144.97	V S	SEP 10, 1980	139.80	S
APR 10, 1968	142.13	S	MAR 25	143.80	V S	JUL 16	144.24	S			

WELL 09S 40E 27HCD1 SITE NUMBER 423652111463001

DRILLED IRRIGATION WATER-TABLE WELL IN BASALTOF QUATERNARY AGE, DIAM 20 IN (51 CM), DEPTH 370 FT (112.8 M), 20-IN CASING 0-20 FT (0-6.1 M). LSD ABOUT 5,602 FT (1,707 M) NGVD OF 1929. MP NO. 2 TOP OF 1-IN (2.5-CM) HOLE INSIDE PUMPBASE NORTH SIDE, 1.15 FT (0.350 M) ABOVE LSD (SINCE FEB. 6, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 179.98 FEET BELOW LAND SURFACE DATUM SEP 10, 1980.

LOWEST WATER LEVEL 185.51 FEET BELOW LAND SURFACE DATUM MAY 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
FEB 06, 1980	184.74	S	MAY 15, 1980	185.51	S	JUL 16, 1980	184.44	P S	SEP 10, 1980	179.98	S
MAR 25	184.30	S									

WELL 10S 40E 05BDD1 SITE NUMBER 423504111482801

DRILLED IRRIGATION WATER-TABLE WELL IN INTERBEDDED BASALT OF QUATERNARY AGE, DIAM 20 TO 16 IN (51 TO 41 CM), DEPTH 208 FT (63.4 M), 16-IN CASING 0-208 FT (0-63.4 M), PERFORATED 90-184 FT (27.4-56.1 M). LSD ABOUT 5,500 FT (1,676 M) NGVD OF 1929. MP NO. 2 BOTTOM EDGE OF 1 1/2-IN (3.8-CM) SLANTED VENT PIPE EAST SIDE, 1.05 FT (0.320 M) ABOVE LSD (SINCE MAY 15, 1980).

RECORDS AVAILABLE 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 85.08 FEET BELOW LAND SURFACE DATUM MAR 25, 1980.

LOWEST WATER LEVEL 88.72 FEET BELOW LAND SURFACE DATUM SEP 10, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
FEB 06, 1980	85.56	S	MAY 15, 1980	86.90	S	JUL 16, 1980	115.35	P S	SEP 10, 1980	88.72	S
MAR 25	85.08	S									

WELL 10S 40E 08BBA1 SITE NUMBER 423433111484701

DRILLED IRRIGATION WATER-TABLE WELL IN INTERBEDDED BASALT OF QUATERNARY AGE, DIAM 16 TO 14 IN (41 TO 36 CM), REPORTED DEPTH 300 FT (91.4 M), 16-IN (41-CM) CASING 0-205 FT (0-62.5 M), 14-IN (36-CM) CASING 190-280 FT (57.9-85.3 M), PERFORATED 70-83 FT (21.3-25.3 M), 270-280 FT (82.3-85.3 M). LSD 5,477.15 FT (1,669.435 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF HOLE INSIDE PUMPBASE SOUTH SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE JULY 16, 1980).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 46.15 FEET BELOW LAND SURFACE DATUM SEP 27, 1972.

LOWEST WATER LEVEL 56.38 FEET BELOW LAND SURFACE DATUM MAY 15, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 23, 1979	53.89	S	FEB 06, 1980	55.57	S	MAY 15, 1980	56.38	S	SEP 10, 1980	53.55	S
DEC 11	54.37	S	MAR 25	55.33	S	JUL 16	56.96	P S			

WELL 10S 40E 35BDD1 SITE NUMBER 423045111450001

DRILLED IRRIGATION WATER-TABLE WELL IN FRACTURED BASALT OF QUATERNARY AGE, DIAM 18 IN (46 CM), REPORTED DEPTH 90 FT (27.4 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,390 FT (1,643 M) NGVD OF 1929. MP NO. 1 HOLE IN PUMPBASE WEST SIDE, 1.30 FT (0.396 M) ABOVE LSD (SINCE AUG. 16, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 61.93 FEET BELOW LAND SURFACE DATUM SEP 14, 1971.

LOWEST WATER LEVEL 66.59 FEET BELOW LAND SURFACE DATUM MAR 06, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 23, 1979	64.62	S	FEB 06, 1980	66.18	S	MAY 15, 1980	66.38	S	SEP 10, 1980	63.03	S
DEC 11	65.55	S	MAR 25	66.17	S	JUL 16	65.96 P	S			

WELL 09S 25E 23DBA1 SITE NUMBER 423732113295801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 8 TO 6 IN (20 TO 15 CM), DEPTH 174.0 FT (53.0 M), 8-IN (20-CM) CASING 0-11 FT (0-3.4 M), 6-IN (15-CM) CASING 11-172 FT (3.4-52.4 M), 30 FT (9.1 M) SLOTTED PERFORATIONS BELOW WATER LEVEL. LSD 4,266.97 FT (1,300.572 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY US BUREAU OF RECLAMATION. PERIODIC MEASUREMENTS PUBLISHED SINCE MAR. 21, 1972, MADE BY US GEOL SURVEY. RECORDER INSTALLED JUNE 20, 1951. CONTINUOUS RECORDER MAINTAINED, AND ITS RECORD FURNISHED BY US BUREAU OF RECLAMATION. MP NO. 1 TOP OF CASING, 1.00 FT (0.305 M) ABOVE LSD (SINCE MAY 25, 1951).

RECORDS AVAILABLE 1951 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 9.56 FEET BELOW LAND SURFACE DATUM MAY 01, 1912.

LOWEST WATER LEVEL 136.54 FEET BELOW LAND SURFACE DATUM APR 15, 1980.

WATER LEVELS IN FFET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 20, 1979	131.25	S	FEB 10, 1980	135.29		MAY 15, 1980	135.35		AUG 05, 1980	131.82	
25	131.42		15	135.41		20	135.06		06	131.82	S
30	131.86		20	135.49		22	134.89	S	10	131.65	
DEC 05	132.17		24	135.63		25	134.66		15	131.31	
10	132.33		MAR 19	136.17	S	31	134.44		19	131.15	S
15	132.65		21	136.15	S	JUN 05	134.20		20	131.15	
20	132.88		25	136.19		10	133.94		25	130.88	
22	133.00		31	136.27		15	134.01		31	130.68	
27	133.35	S	APR 05	136.38		20	133.89	S	SEP 05	130.63	
31	133.49		10	136.46		25	133.74		09	130.53	S
JAN 05, 1980	133.62		15	136.54		30	133.66		10	130.39	
10	133.88		18	136.53		JUL 05	133.34		15	130.21	
15	134.15		22	136.37	S	10	133.24		18	130.03	
20	134.48		25	136.30		15	133.07		20	130.05	
25	134.52		30	136.06		20	132.79		25	130.10	
31	134.97		MAY 05	136.00		26	132.56	S	30	130.12	
FEB 05	135.15		10	135.64		31	132.25				

WELL 09S 26E 07AAA1 SITE NUMBER 423943113272001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 152.5 FT (46.5 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-152.5 FT (0-46.5 M), PERFORATED 145-150 FT (44.2-45.7 M), GRAVEL PACKED, CONCRETE SEAL. LSD 4,199.95 FT (1,280.145 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 1.80 FT (0.549 M) ABOVE LSD (SINCE NOV. 18, 1970).

RECORDS AVAILABLE 1970 - 1972, 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 54.75 FEET BELOW LAND SURFACE DATUM AUG 25, 1972.

LOWEST WATER LEVEL 71.32 FEET BELOW LAND SURFACE DATUM MAR 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 25, 1979	65.70	S	JAN 22, 1980	70.37	S	MAY 28, 1980	68.06	S	SEP 06, 1980	64.59	S
NOV 29	68.08	S	MAR 19	71.32	S	JUN 27	66.70	S			
DEC 18	68.88	S	21	71.30	S	JUL 26	65.61	S			

WELL 09S 26E 07AAB2 SITE NUMBER 423943113272002

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 550 FT (167.6 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-227 FT (0-69.2 M), PERFORATED 219.5-224.5 FT (66.9-68.4 M), GRAVEL PACKED, CONCRETE SEAL. LSD 4,199.95 FT (1,280.145 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 1.26 FT (0.384 M) ABOVE LSD (SINCE NOV. 18, 1970).

RECORDS AVAILABLE 1970 - 1972, 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 55.42 FEET BELOW LAND SURFACE DATUM AUG 25, 1972.

LOWEST WATER LEVEL 71.79 FEET BELOW LAND SURFACE DATUM MAR 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 25, 1979	66.17	S	JAN 22, 1980	70.77	S	MAY 28, 1980	68.97	S	AUG 06, 1980	66.08	S
NOV 29	68.33	S	MAR 19	71.79	S	JUN 27	67.34	S	SEP 09	65.23	S
DEC 18	69.28	S	21	71.79	S	JUL 26	66.44	S			

WELL 09S 26E 07AAB3 SITE NUMBER 423943113272003

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 804.5 FT (245.2 M), 1-IN (2.5-CM) PIEZOMETER TUBE 0-861 FT (0-262.4 M), PERFORATED 777.7-782.7 FT (237.1-238.6 M), GRAVEL PACKED, CONCRETE SEAL. LSD 4,199.95 FT (1,280.145 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 1-IN (2.5-CM) PIPE, 0.31 FT (0.094 M) ABOVE LSD (SINCE NOV. 18, 1970).

RECORDS AVAILABLE 1970 - 1972, 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 6.09 FEET BELOW LAND SURFACE DATUM JUL 27, 1972.

LOWEST WATER LEVEL 31.71 FEET BELOW LAND SURFACE DATUM SEP 28, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 25, 1979	31.59	S	JAN 22, 1980	27.67	S	MAY 28, 1980	24.21	S	AUG 06, 1980	26.54	S
NOV 29	29.92	S	MAR 19	25.53	S	JUN 27	24.68	S	SEP 09	28.22	S
DEC 18	28.58	S	21	25.15	S	JUL 26	25.36	S			

WELL 09S 26E 07BCC1 SITE NUMBER 423922113281201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 5 IN (13 CM), DEPTH 88.0 FT (26.8 M), 8-IN (20-CM) CASING 0-7.2 FT (0-2.2M), 5-IN (13-CM) CASING 0-88.5 FT (0-27.0 M), PERFORATED 58.5-88.5 FT (17.8-27.0 M). LSD 4,207.84 FT (1,282.550 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY US BUREAU OF RECLAMATION. RECORDER INSTALLED AUG. 22, 1951. RECORDER REMOVED SEPT. 12, 1962. MP NO. 1 TOP OF 5-IN (13-CM) CASING, 0.70 FT (0.213 M) ABOVE LSD (SINCE AUG. 17, 1951).

RECORDS AVAILABLE 1951 - 1962, 1963 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 58.33 FEET BELOW LAND SURFACE DATUM OCT 02, 1951.

LOWEST WATER LEVEL 78.08 FEET BELOW LAND SURFACE DATUM MAR 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 04, 1979	71.09	S	MAR 19, 1980	78.08	S

WELL 09S 26E 10DDD1 SITE NUMBER 423855113233901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 8 TO 6 IN (20 TO 15 CM), DEPTH 120.0 FT (39.0 M), 8-IN (20-CM) CASING 0-15 FT (0-4.6 M), 6-IN (15-CM) CASING 15-118 FT (4.6-36.0 M). LSD 4,217.18 FT (1,285.396 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY US BUREAU OF RECLAMATION. RECORDER INSTALLED JUNE 21, 1951. RECORDER REMOVED SEPT. 12, 1962. MP NO. 1 TOP OF CASING, 0.75 FT (0.229 M) ABOVE LSD (SINCE JUNE 4, 1951).

RECORDS AVAILABLE 1951 - 1962, 1963 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 67.30 FEET BELOW LAND SURFACE DATUM OCT 20, 1951.

LOWEST WATER LEVEL 85.69 FEET BELOW LAND SURFACE DATUM APR 27, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	
MAR 15, 1980	0	SEP 09, 1980	81.65	S

WELL 11S 22E 32CCC1 SITE NUMBER 422501113564801

DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN (15 CM), REPORTED DEPTH 635.0 FT (193.6 M), CASED TO 605 FT (184.4 M), CASING SEALED AT 605 FT (184.4 M). LSD 4,309.70 FT (1,313.597 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. RECORDER INSTALLED JUNE 2, 1972, AND OPERATED BY US BUREAU OF RECLAMATION. RECORDER REMOVED DEC. 17, 1974. MP NO. 2 TOP OF 1-IN (2.5-CM) HOLE IN CASING COVER, 2.61 FT (0.796 M) ABOVELSD (SINCE SEPT. 11, 1975).

RECORDS AVAILABLE 1972 - 1974, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 368.21 FEET BELOW LAND SURFACE DATUM MAY 04, 1976.

LOWEST WATER LEVEL 408.54 FEET BELOW LAND SURFACE DATUM SEP 21, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	398.58	S	MAR 20, 1980	384.02	S	JUL 23, 1980	400.97	S	SEP 13, 1980	403.42	S
JAN 19, 1980	388.75	S	MAY 19	383.73	S	AUG 08	403.47	S			

WELL 11S 23E 34CDC1 SITE NUMBER 422458113452701

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN (41 CM), DEPTH 346.4 FT (105.6 M), CASED TO 282.3 FT (86.0 M). LSD 4,271.11 FT (1,301.834 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. JULY 1, 1971, GEOPHYSICAL LOG SHOWED WELL HAD FILLED IN TO A DEPTH OF 340.5 FT (103.8 M). MAY 15, 1979, WELL WASDEEPENED TO A DEPTH OF 412.3 FT (125.7 M). MP NO. 2 TOP OF 1 1/4-IN (3.18-CM) PIPE COUPLING, 2.25FT (0.686 M) ABOVE LSD (SINCE MAY 18, 1972).

RECORDS AVAILABLE 1952, 1962 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 289.97 FEET BELOW LAND SURFACE DATUM JUN 05, 1952.

LOWEST WATER LEVEL 350.77 FEET BELOW LAND SURFACE DATUM AUG 07, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 11, 1980	333.71	S	AUG 07, 1980	350.77	S	SEP 13, 1980	350.05	S

WELL 11S 25E 32CCC2 SITE NUMBER 4224581133[illegible]201

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 14 IN (36 CM), REPORTED DEPTH 500 FT (152.4 M), 16-IN (41-CM) CASING 0-60 FT (0-18.3 M), 14-IN (36-CM) CASING 0-239 FT (0-72.8 M), PERFORATED 0-239 FT (0-72.8 M). LSD ABOUT 4,680 FT (1,426 M) NGVD OF 1929. MP NO. 1 BOTTOM EDGE OF 1-IN (2.5-CM) PIPE NORTHEAST SIDE, 1.40 FT (0.427 M) ABOVE LSD (SINCE JULY 11, 1978).

RECORDS AVAILABLE 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.79 FEET BELOW LAND SURFACE DATUM NOV 08, 1966.

LOWEST WATER LEVEL 43.84 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 12, 1980	30.15	S	AUG 06, 1980	43.84	T

WELL 11S 27E 12DDA1 SITE NUMBER 422635113140701

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 20 IN (51 CM), REPORTED DEPTH 376 FT (114.6 M), CASED 0-245 FT (0-74.7 M), 297-330 FT (90.5-100.6 M), PERFORATED 167-245 FT (50.9-74.7 M), 297-330 FT (90.5-100.6 M). LSD4,480.50 FT (1,365.656 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 5 TOP OF ACCESS HOLE INSIDE PUMPBASE NORTHWEST SIDE, 1.41 FT (0.430 M) ABOVE LSD (SINCE SEPT. 20, 1974).

RECORDS AVAILABLE 1963 - 1965, 1971 - 1972, 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 180.25 FEET BELOW LAND SURFACE DATUM APR 15, 1964.

LOWEST WATER LEVEL 257.05 FEET BELOW LAND SURFACE DATUM SEP 15, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 15, 1980	232.30	S	AUG 06, 1980	258.49	P S	SEP 16, 1980	249.32	S

WELL 11S 27E 29AAA1 SITE NUMBER 422639113260101

DRILLED UNUSED WATER-TABLE WELL IN RAFT FORMATION, DIAM 8 IN (20 CM), DEPTH 247.4 FT (75.4 M), CASED TO 237 FT (72.2 M). LSD 4,394.72 FT (1,339.511 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED MAY 19, 1961. MP NO. 1 TOP OF 8-IN (20-CM) CASING NORTHEAST SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE AUG.11, 1950).

RECORDS AVAILABLE 1950 - 1952, 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 32.75 FEET BELOW LAND SURFACE DATUM NOV 05, 1952.

LOWEST WATER LEVEL 111.19 FEET BELOW LAND SURFACE DATUM SEP 26, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 02, 1979	109.32	S	JAN 25, 1980	101.54		APR 25, 1980	97.24		JUL 15, 1980	102.87	
05	108.95		31	101.18		26	97.23		20	103.71	
10	108.25		FEB 05	100.92		30	97.30		25	104.50	S
15	107.60		10	100.65		MAY 05	97.60		31	105.29	
20	107.02		15	100.29		10	98.07		AUG 05	106.00	
25	106.45		20	100.00		15	98.32		10	106.61	
30	105.94		25	99.74		19	98.52	S	15	107.08	
DEC 05	105.44		29	99.56		20	98.57		20	107.45	
10	104.99		MAR 05	99.31		25	99.13		25	107.86	
15	104.55		10	99.07		31	99.45		31	108.31	
20	104.14		15	98.83	S	JUN 05	99.67		SEP 05	108.70	
25	103.74		20	98.60		10	99.61		10	109.06	
31	103.27		25	98.36		15	99.83		15	109.35	
JAN 05, 1980	102.95		31	98.11		20	100.29		16	109.37	S
10	102.59		APR 05	97.91		25	100.81		20	109.57	
15	102.11		10	97.74		30	101.33		25	109.85	
18	101.93	S	15	97.56		JUL 05	101.78		30	110.03	
20	101.82		20	97.38		10	102.27				

WELL 12S 19E 02BBR1 SITE NUMBER 422452114123201

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, REPORTED DEPTH 750 FT (228.6 M), UNCASED OPEN HOLE. LSD 4,268.27 FT (1,300.969 M) NGVDOF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. IN 1953 WELL WAS DEEPENED TO ABOUT 900 FT (274.3 M). MP NO. 1 TOP OF CONCRETE WEST SIDE OF HOLE BENEATH PUMP, 1.00 FT (0.305 M) ABOVE LSD (SINCE OCT. 17, 1951).

RECORDS AVAILABLE 1951 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 100.98 FEET BELOW LAND SURFACE DATUM MAY 03, 1952.

LOWEST WATER LEVEL 411.20 FEET BELOW LAND SURFACE DATUM SEP 24, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 20, 1980	314.21	S	AUG 09, 1980	366.41	S

WELL 12S 21E 02DAA1 SITE NUMBER 422434113570201

DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN (15 CM), REPORTED DEPTH 936.0 FT (285.3 M), CASED TO 907 FT (276.4 M), CASING SEALED AT 907 FT (276.4 M). LSD 4,361.25 FT (1,329.309 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. AUG. 1, 1972, WELL HAD FILLED IN TO A DEPTH OF 918.0 FT (279.8 M). DIGITAL RECORDER INSTALLED AUG. 1, 1972. RECORDER CHANGED FROM DIGITAL TO ANALOG NOV. 20, 1979. MP NO. 1 TOP OF 6-IN (15-CM) CASING NORTHEAST SIDE, 0.47 FT (0.143 M) ABOVE LSD (SINCE FEB. 3, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 373.12 FEET BELOW LAND SURFACE DATUM APR 26, 1976.

LOWEST WATER LEVEL 450.08 FEET BELOW LAND SURFACE DATUM AUG 10, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1979	430.62		JAN 10, 1980	406.51		APR 10, 1980	397.06		JUL 23, 1980	434.03	S
10	429.12		15	406.10		14	396.69		25	435.27	
15	430.52		20	405.62		15	396.87		31	439.76	
20	426.36		25	404.52		20	397.97		AUG 05	440.62	
25	423.91		31	404.11		MAY 19	401.10	S	10	440.57	
31	421.28		FEB 05	403.46		20	401.06		15	439.50	
NOV 02	421.15		10	402.77		25	402.01		20	440.58	
20	416.32		15	401.99		31	403.17		25	439.20	
25	415.02		20	401.28		JUN 05	403.97		29	442.58	
30	414.20		25	401.14		10	403.02		31	441.76	
DEC 05	413.10		29	400.66		15	405.72		SEP 05	439.99	
10	411.97		MAR 05	399.85		20	407.60		10	438.42	
15	411.18		10	399.50		25	413.17		15	436.44	
20	410.28		15	398.97		30	421.60		20	431.74	
25	409.42		20	398.69		JUL 05	422.95		25	428.77	
31	408.42		25	398.19		10	423.88		30	426.92	
JAN 01, 1980	408.42		31	397.73		15	428.72				
05	407.54		APR 05	397.28	E	20	432.50				

WELL 12S 21E 16DCC1 SITE NUMBER 422227113595901

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 20-18-16 IN (51-46-41 CM), DEPTH 256.7 FT (78.2 M), 20-IN (51-CM) CASING0-98.7 FT (0-30.1 M), 18-IN (46-CM) CASING 98.7-127.3 FT (30.1-38.8 M), 16-IN (41-CM) CASING 127.3-233 FT (38.8-71.0 M). LSD 4,377.99 FT (1,334.411 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARYADJUSTMENT OF 1947. MP NO. 3 TOP OF CASING SOUTH SIDE, 0.90 FT (0.274 M) ABOVE LSD (SINCE SEPT. 14, 1977).

RECORDS AVAILABLE 1962 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 101.03 FEET BELOW LAND SURFACE DATUM MAR 12, 1975.

LOWEST WATER LEVEL 126.75 FEET BELOW LAND SURFACE DATUM SEP 12, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	121.23	S	MAR 20, 1980	113.94	S	JUL 23, 1980	123.17	S	SEP 13, 1980	121.75	S
JAN 19, 1980	114.80	S	MAY 19	118.48	S	AUG 08	124.11	S			

WELL 12S 21E 25CCC1 SITE NUMBER 422047113570101

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 20 TO 12 IN (51 TO 30 CM), REPORTED DEPTH 1,196 FT (364.5 M), 20-IN (51-CM) CASING 0-188 FT (0-57.3 M), 12-IN (30-CM) CASING 948-1,029 FT (289.0-313.6 M). LSD 4,409.64 FT (1,344.058 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF CASING, 0.78 FT (0.238 M) ABOVE LSD (SINCE AUG. 8, 1980).

RECORDS AVAILABLE 1962 - 1967, 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 315.54 FEET BELOW LAND SURFACE DATUM MAR 23, 1976.

LOWEST WATER LEVEL 393.32 FEET BELOW LAND SURFACE DATUM AUG 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 11, 1980	349.12	S	AUG 08, 1980	393.32	S	SEP 13, 1980	380.56	S

WELL 12S 25E 06DCC1 SITE NUMBER 422405113343801

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 102.3 FT (31.2 M), CASED TO 120 FT (36.6 M). ORIGINAL REPORTED DEPTH 120 FT (36.6 M). LSD ABOUT 4,755 FT (1,449 M) NGVD OF 1929. MP NO. 1 TOPOF HOLE IN WELL SEAL NORTH SIDE, 1.40 FT (0.427 M) BELOW LSD (SINCE SEPT. 22, 1966).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.22 FEET BELOW LAND SURFACE DATUM SEP 07, 1971.

LOWEST WATER LEVEL 26.63 FEET BELOW LAND SURFACE DATUM OCT 15, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	30.68	R S	MAR 12, 1980	8.95	S	JUL 24, 1980	13.74	P V	SEP 11, 1980	38.30	P V
JAN 18, 1980	16.20	S	MAY 19	3.35	S	AUG 06	17.25	P V			

WELL 12S 25E 09CCD1 SITE NUMBER 422313113324701

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 10 IN (25 CM), DEPTH 378.9 FT (115.5 M), CASED TO 250 FT (76.2 M). LSD ABOUT 4,831 FT (1,472 M) NGVD OF 1929. MP NO. 1 TOP OF CASING WEST SIDE, 0.70 FT (0.213 M) ABOVE LSD (SINCE SEPT. 21, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 84.36 FEET BELOW LAND SURFACE DATUM MAY 06, 1976.

LOWEST WATER LEVEL 106.10 FEET BELOW LAND SURFACE DATUM OCT 15, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	94.24	S	MAR 12, 1980	93.54	S	JUL 24, 1980	92.98	S	SEP 11, 1980	93.94	S
JAN 18, 1980	93.77	S	MAY 19	93.02	S	AUG 06	93.56	V			

WELL 12S 25E 18BBA1 SITE NUMBER 422310113350801

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 IN (20 CM), DEPTH 103.8 FT (31.6 M), CASED TO 104 FT (31.7 M). LSD ABOUT 4,940 FT (1,506 M) NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL SOUTH SIDE, 0.20 FT (0.061 M) ABOVE LSD (SINCE SEPT. 21, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 27.43 FEET BELOW LAND SURFACE DATUM SEP 23, 1976.

LOWEST WATER LEVEL 52.27 FEET BELOW LAND SURFACE DATUM MAR 04, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	44.71	S	MAR 12, 1980	46.78	S	JUL 24, 1980	36.58	S	SEP 11, 1980	40.64	S
JAN 18, 1980	45.94	S	MAY 19	43.27	S	AUG 06	37.85	S			

WELL 12S 25E 28AAA2 SITE NUMBER 422125113315201

DUG DOMESTIC WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 12 IN (30 CM), DEPTH 32.8 FT (10.0 M), CASED TO 36 FT (11.0 M), OPEN END. LSD ABOUT 5,354 FT (1,632 M) NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WOODEN COVER NORTHEAST SIDE, 1.20 FT (0.366 M) BELOW LSD (SINCE SEPT. 20, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.53 FEET BELOW LAND SURFACE DATUM MAY 08, 1974.

LOWEST WATER LEVEL 18.65 FEET BELOW LAND SURFACE DATUM DEC 13, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	10.29	S	JAN 18, 1980		N

WELL 12S 25E 28AAA3 SITE NUMBER 422125113314901

DRILLED STOCK WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 8 IN (20 CM), DEPTH 177.2 FT (54.0 M). LSD ABOUT 5,356 FT (1,632 M) NGVD OF 1929. MP NO.1 TOP OF HOLE IN WELL SEAL NORTHWEST SIDE, 1.70 FT (0.518 M) ABOVE LSD (SINCE SEPT. 20, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 69.50 FEET BELOW LAND SURFACE DATUM SEP 23, 1976.

LOWEST WATER LEVEL 122.07 FEET BELOW LAND SURFACE DATUM JUN 17, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	75.04	S	MAR 12, 1980	80.37	S	JUL 24, 1980	71.85	S	SEP 11, 1980	70.08	S
JAN 18, 1980	77.52	S	MAY 19	78.94	S						

WELL 12S 26E 02ACC1 SITE NUMBER 422438113230401

DRILLED IRRIGATION WATER-TABLE WELL IN RAFT FORMATION, DIAM 20 IN (51 CM), REPORTED DEPTH 197 FT (60.0 M), CASED TO 197 FT (60.0 M), OPEN BOTTOM. LSD 4,415.41 FT (1,345.817 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF CONCRETE PLATFORM WEST SIDE, 1.50 FT (0.457 M) ABOVE LSD (SINCE NOV. 2, 1972).

RECORDS AVAILABLE 1950 - 1952, 1957 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.69 FEET BELOW LAND SURFACE DATUM APR 21, 1950.

LOWEST WATER LEVEL 113.72 FEET BELOW LAND SURFACE DATUM SEP 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 15, 1980	91.73	S	SEP 16, 1980	113.72	S

WELL 13S 21E 18BBC1 SITE NUMBER 421755114024401

DRILLED UNUSED WATER-TABLE WELL IN LIMESTONE OF PALEOZOIC AGE, DIAM 16 TO 17 IN (41 TO 43 CM). REPORTED DEPTH 850 FT (259.1 M), 16-IN (41-CM) CASING 0-20 FT (0-6.1 M), 17-IN (43-CM) CASING 20-80 FT (6.1-24.4 M), BOTTOM OF CASING SET IN CONCRETE SEAL. LSD 4,953.63 FT (1,509.866 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. JULY 17, 1968, WELL HAD FILLED IN TO A DEPTH OF 820.9 FT (250.2 M). RECORDER INSTALLED AUG. 16, 1961. RECORDER REMOVED NOV. 30, 1971. RECORDER INSTALLED MAY 3, 1972. MP NO. 4 TOP OF 1-IN (2.5-CM) PIPE FLANGE NORTHWEST SIDE, 2.07 FT (0.631 M) ABOVE LSD (SINCE AUG. 2, 1972).

RECORDS AVAILABLE 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 362.14 FEET BELOW LAND SURFACE DATUM APR 19, 1961.

LOWEST WATER LEVEL 579.78 FEET BELOW LAND SURFACE DATUM SEP 30, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1979	576.97		JAN 05, 1980	577.43		APR 05, 1960	576.43		JUL 23, 1980	575.74	S
10	577.16		10	576.96		10	576.53		25	575.90	
15	577.24		15	577.74		15	576.52		31	576.22	
20	577.09		20	577.90		20	576.09		AUG 05	576.40	
25	577.30		25	577.14		25	576.29		10	577.08	
31	577.52		31	577.69		MAY 19	575.76	S	15	577.31	
NOV 05	577.81		FEB 05	577.45		25	575.55		20	577.92	
10	577.73		10	577.26		31	575.61		25	578.13	
12	577.95		15	577.23		JUN 05	575.55		31	578.32	
16	577.71	S	20	577.07		10	575.43		SEP 05	578.68	
20	577.97		25	577.41		15	575.48		09	578.88	
25	577.37		29	577.23		20	575.31		10	578.77	
30	577.96		MAR 05	576.82		22	575.13		15	579.14	
DEC 05	577.86		10	576.95		25	575.18		20	579.24	
10	577.59		15	576.87		30	575.26		25	579.57	
15	577.71		18	576.60		JUL 05	575.25		30	579.78	
20	577.66		20	576.80		10	575.40				
25	577.84		25	576.64		15	575.53				
31	577.67		31	576.56		20	575.66				

WELL 13S 22E 21CCD1 SITE NUMBER 421621113531601

DUG DOMESTIC WATER-TABLE WELL IN CLAY AND GRAVEL OF QUATERNARY AGE, DIAM 36 X 60 IN (91 X 152 CM), REPORTED DEPTH 80 FT (24.4 M), CASED TO 80 FT(24.4 M). LSD 4,491.80 FT (1,369.101 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. JUNE 2, 1972, CONTINUOUS RECORDER INSTALLED AND MAINTAINED BY THE US BUREAU OF RECLAMATION. RECORDER REMOVED DEC. 17, 1974. MP NO. 2 TOP OF SOUTH 2X10-IN (5X25-CM) BOARD NORTH EDGE, 0.60 FT (0.183 M) ABOVE LSD(SINCE AUG. 1, 1975).

RECORDS AVAILABLE 1972 - 1974, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.02 FEET BELOW LAND SURFACE DATUM SEP 11, 1975.

LOWEST WATER LEVEL 66.44 FEET BELOW LAND SURFACE DATUM MAR 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	47.44	S	MAR 11, 1980	66.44	S	JUL 23, 1980	14.78	S	SEP 12, 1980	14.80	S
JAN 18, 1980	59.70	S	MAY 19	54.38	S						

WELL 13S 22E 21CCD2 SITE NUMBER 421620113531701

DRILLED OBSERVATION WATER-TABLE WELL IN SILTYSAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 TO 6 IN (20 TO 15 CM), DEPTH 1,004.0 FT (306.0 M), 8-IN (20-CM) CASING 0-543 FT (0-165.5 M), 6-IN (15-CM) CASING 536-1,000 FT (163.4-304.8 M), PERFORATED 560-606 FT (170.7-184.7 M). LSD 4,491.80 FT (1,369.101 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. JUNE 1, 1972, CONTINUOUS RECORDER INSTALLED AND MAINTAINED BY US BUREAU OF RECLAMATION. RECORDER REMOVED DEC. 17, 1974. MP NO. 2 TOP OF HOLE IN CENTER OF CASING COVER WEST SIDE, 2.12 FT (0.646 M) ABOVE LSD (SINCE SEPT. 11, 1975).

RECORDS AVAILABLE 1972 - 1974, 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.48 FEET BELOW LAND SURFACE DATUM SEP 11, 1975.

LOWEST WATER LEVEL 68.21 FEET BELOW LAND SURFACE DATUM MAR 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	52.51	S	MAR 11, 1980	68.21	S	JUL 23, 1980	43.60	S	SEP 12, 1980	33.38	S
JAN 18, 1980	62.32	S	MAY 19	64.40	S						

WELL 13S 22E 21CCD3 SITE NUMBER 421621113531602

DRILLED DOMESTIC WATER-TABLE WELL IN SAND ANDGRAVEL OF QUATERNARY AGE, DIAM 4 IN (10 CM), REPORTED DEPTH 140 FT (42.7 M), CASED TO 140 FT (42.7 M), THIS WELL WAS DRILLED INSIDE AN EXISTING DUG WELL. LSD 4,491.80 FT (1,369.101 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. ALL MEASUREMENTS PRIOR TO AUG. 1, 1975, MADE BY US BUREAU OF RECLAMATION. MP NO. 3 TOP OF SOUTH 2X10-IN (5X25-CM) BOARD NORTH EDGE, 0.60 FT (0.183 M) ABOVE LSD (SINCE AUG. 1, 1975).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 7.73 FEET BELOW LAND SURFACE DATUM SEP 11, 1975.

LOWEST WATER LEVEL 64.28 FEET BELOW LAND SURFACE DATUM MAR 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 16, 1979	46.64	S	MAR 11, 1980	64.28	S	JUL 23, 1980	36.47	S	SEP 12, 1980	26.20	S
JAN 18, 1980	57.71	S	MAY 19	59.37	S						

WELL 13S 26E 01CCC1 SITE NUMBER 421852113222601

DRILLED UNUSED WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 16 IN (41 CM), REPORTED DEPTH 69 FT (21.0 M), CASED TO 66 FT (20.1 M), PERFORATED 24-43 FT (7.3-13.1 M), 46-64 FT (14.0-19.5 M). IN 1959 WELL WAS DEEPENED TO A REPORTED DEPTHOF 250 FT (76.2 M). JUNE 23, 1965, WELL HAD FILLED IN TO A DEPTH OF 223.2 FT (68.0 M). LSD 4,517.63FT (1,376.974 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 BOTTOM EDGE OF SLOPING PIPE EAST SIDE, 0.98 FT (0.299 M) ABOVE LSD (SINCE FEB. 9, 1966).

RECORDS AVAILABLE 1949 - 1952, 1961 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.60 FEET BELOW LAND SURFACE DATUM JUN 19, 1950.

LOWEST WATER LEVEL 40.46 FEET BELOW LAND SURFACE DATUM SEP 15, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
MAR 12, 1980	36.05	S

WELL 13S 27E 15CAA1 SITE NUMBER 421731113170601

DRILLED IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAMETER 14 TO 12 IN (36 TO 30 CM), REPORTED DEPTH 947 FT (288.6 M), 14-IN (36-CM) CASING 0-348 FT (0-106.1 M), 12-IN (30-CM) CASING 348-428 FT (106.1-130.4 M), PERFORATED 320-348 FT (97.5-106.1 M), 355-428 FT (108.2-130.4 M). LSD 4,629.60 FT (1,411.102 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF HOLE INSIDE PUMPBASE EAST SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE OCT. 24, 1966).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 128.81 FEET BELOW LAND SURFACE DATUM APR 20, 1964.

LOWEST WATER LEVEL 192.16 FEET BELOW LAND SURFACE DATUM SEP 20, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
MAR 12, 1980	158.59	S

WELL 14S 27E 33CDD1 SITE NUMBER 420917113181501

DRILLED UNUSED WATER-TABLE WELL IN COARSE GRAINED GRAVEL OF QUATERNARY AGE, DIAM 16 TO 14 IN (41 TO 36 CM), DEPTH 199.6 FT (60.8 M), 16-IN (41-CM) CASING 0-92 FT (0-28.0 M), 14-IN (36-CM) CASING 87-225 FT (26.5-68.6 M), PERFORATED 45-50 FT (13.7-15.2 M), 105-225 FT (32.0-68.6 M). ORIGINAL DEPTH 225 FT (68.6 M), CASED TO 225 FT (68.6 M). JUNE 22, 1965, WELL HAD FILLED IN TO A DEPTH OF 199.6 FT (60.8 M). LSD ABOUT 4,715 FT (1,437 M) NGVD OF 1929. RECORDER INSTALLED JUNE 22, 1965. RECORDER REMOVED AUG. 12, 1971. DIGITAL RECORDER INSTALLED JULY 26, 1977. MP NO. 1 TOP OF 16-IN (41-CM) CASING NORTHWEST SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE AUG. 3, 1955).

RECORDS AVAILABLE 1955, 1965 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 34.44 FEET BELOW LAND SURFACE DATUM NOV 23, 1971.

LOWEST WATER LEVEL 47.52 FEET BELOW LAND SURFACE DATUM SEP 30, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	
OCT 05, 1979	46.33	NOV 30, 1979	45.46	JAN 31, 1980	44.82	MAY 19, 1980	44.44	S
10	46.11	DEC 05	45.41	FEB 05	44.72	20	45.05	
15	46.03	10	45.33	10	44.63	25	46.02	
20	45.90	15	45.31	15	44.58	31	46.33	
25	45.81	20	45.26	20	44.47	JUN 05	46.48	
31	45.75	25	45.26	25	44.53	09	46.31	
NOV 05	45.74	31	45.17	29	44.47	JUL 25	46.00	S
10	45.65	JAN 05, 1980	45.11	MAR 05	44.35	31	45.61	
15	45.62	10	45.05	10	44.35	SEP 15	44.40	S
17	45.49	15	45.07	15	44.31	22	44.35	
20	45.56	20	45.03	18	44.23			
25	45.47	25	44.77	MAY 15	44.43			

WELL 16S 28E 20CDC1 SITE NUMBER 420039113122301

DRILLED UNUSED WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 8 IN (20 CM), DEPTH 295.0 FT (89.9 M), CASED TO 200 FT (61.0 M), LSD ABOUT5,280 FT (1,609 M) NGVD OF 1929, MP NO. 2 TOP OF HOLE IN WELL SEAL WEST SIDE, 6.25 FT (1.905 M) BELOW LSD (SINCE SEPT. 20, 1968).

RECORDS AVAILABLE 1966 TO CURRENT YEAR.

HIGHEST WATER LEVEL 146.09 FEET BELOW LAND SURFACE DATUM MAR 22, 1976.

LOWEST WATER LEVEL 148.43 FEET BELOW LAND SURFACE DATUM FEB 18, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 12, 1980	147.27 S	SEP 15, 1980	148.05 P S

WELL 13N 41E 08BCA1 SITE NUMBER 442808111391301

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), REPORTED DEPTH 85 FT (25.9 M), CASED TO 56 FT (17.1 M). LSD ABOUT 6,504 FT (1,982 M) NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL SOUTH SIDE, 1.25 FT (0.381 M) ABOVE LSD (SINCE SEPT. 24, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.83 FEET BELOW LAND SURFACE DATUM JUN 20, 1974.

LOWEST WATER LEVEL WELL DRY DEC 06, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 18, 1979	61.81	S	MAY 20, 1980	40.07	S	JUL 17, 1980	30.26	S

WELL 10N 35E 08BBA1 SITE NUMBER 441258112222201

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN (20 CM), REPORTED DEPTH 360 FT (109.7 M), CASING DEPTH NOT AVAILABLE. LSD 5,253.91 FT (1,601.392 M) NGVD OF 1929. MP NO. 2 TOP OF 1/4-IN (0.64-CM) HOLE IN WELL SEAL, 6.50 FT (1.981 M) BELOW LSD (SINCE APR. 2, 1968).

RECORDS AVAILABLE 1957 - 1959, 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 235.26 FEET BELOW LAND SURFACE DATUM SEP 12, 1975.

LOWEST WATER LEVEL 256.36 FEET BELOW LAND SURFACE DATUM JUN 08, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	
NOV 06, 1979	252.85	S	FEB 12, 1980	251.86	S	JUN 06, 1980	0	AUG 05, 1980	0	
DEC 18	254.46	R V	MAR 13	251.27	S	JUL 24	0	SEP 10	241.11	S

WELL 09N 34E 11ADD1 SITE NUMBER 440725112245301

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 4 IN (10 CM), DEPTH 192.6 FT (58.7 M), CASED TO 208 FT (63.4 M). ORIGINAL DRILLED DEPTH 208 FT (63.4 M). LSD ABOUT 4,955 FT (1,510 M) NGVD OF 1929. RECORDER INSTALLED OCT. 7, 1959. RECORDER REMOVED MAY 9, 1972. RECORDER INSTALLED JULY 9, 1977. MP NO. 2 TOP OF CASING NORTH SIDE, 2.32FT (0.707 M) ABOVE LSD (SINCE JULY 18, 1975).

RECORDS AVAILABLE 1957 - 1958, 1959 - 1972, 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 151.30 FEET BELOW LAND SURFACE DATUM JUN 01, 1976.

LOWEST WATER LEVEL 157.93 FEET BELOW LAND SURFACE DATUM NOV 05, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 05, 1979	157.80	JAN 05, 1980	157.56	APR 05, 1980	156.77		JUL 05, 1980	156.77
10	157.82	10	157.47	10	156.75		10	156.82
15	157.85	15	157.44	15	156.72		15	156.88
20	157.87	20	157.39	20	156.70		20	156.95
25	157.89	25	157.37	25	156.68		25	157.02
31	157.91	31	157.35	30	156.68		31	157.13
NOV 05	157.93	FEB 05	157.31	MAY 05	156.66		AUG 05	157.24
10	157.93	10	157.23	10	156.66		10	157.26
15	157.92	15	157.19	15	156.66		15	157.40
20	157.91	20	157.14	20	156.66		20	157.48
25	157.87	25	157.11	25	156.65		25	157.56
30	157.85	29	157.06	31	156.65		31	157.65
DEC 05	157.80	MAR 05	157.00	JUN 06	156.64	S	SEP 05	157.73
10	157.76	10	156.95	10	156.63		10	157.80
15	157.73	15	156.88	15	156.63		15	157.80
20	157.70	20	156.86	20	156.66		20	157.80
25	157.66	25	156.84	25	156.68		25	157.82
31	157.61	31	156.80	30	156.72		30	157.84

WELL 09N 36E 33CAA1 SITE NUMBER 440353112135701

DRILLED INDUSTRIAL WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 IN (20 CM), REPORTED DEPTH 155 FT (47.2 M), CASED TO 12 FT (3.7 M). LSD ABOUT 4,865 FT (1,483 M) NGVD OF 1929. DIGITAL RECORDER INSTALLED JULY 8, 1977. MP NO. 3 TOP OF CONCRETE PLATFORM NORTHEAST SIDE, 0.43 FT (0.131 M) ABOVE LSD (SINCE JULY 8, 1977).

RECORDS AVAILABLE 1963 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 74.43 FEET BELOW LAND SURFACE DATUM MAR 04, 1976.

LOWEST WATER LEVEL 80.39 FEET BELOW LAND SURFACE DATUM AUG 08, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1979	80.00	JAN 05, 1980	78.68	APR 15, 1980	78.83	JUL 15, 1980	79.10
05	79.94	10	78.38	20	78.76	20	79.40
10	79.92	15	78.73	25	78.78	25	79.66
15	79.78	20	78.85	30	78.68	31	79.93
20	79.62	25	78.63	MAY 05	78.81	AUG 05	80.02
25	79.61	27	78.60	10	78.64	10	80.24
31	79.55	FEB 13	78.54	15	78.68	15	80.28
NOV 05	79.54	15	78.59	20	78.77	16	80.32
10	79.35	20	78.45	25	78.61	20	80.26
15	79.41	25	78.74	31	78.61	25	80.18
20	79.29	29	78.65	JUN 05	78.37	31	80.15
25	79.13	MAR 05	78.47	10	78.15	SEP 05	80.22
30	79.23	10	78.59	14	78.10	10	80.08
DEC 05	79.10	15	78.54	15	78.25	15	79.97
10	78.91	20	78.68	20	78.28	20	79.83
15	78.95	25	78.62	25	78.36	25	79.83
20	78.90	31	78.65	30	78.61	30	79.77
25	78.86	APR 05	78.65	JUL 05	78.66		
31	78.86	10	78.77	10	78.83		

WELL 09N 21E 14BBC1 SITE NUMBER 440649113565701

DRILLED IRRIGATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN (41 CM), DEPTH 253.8 FT (77.4 M), CASED TO 267 FT (81.4 M), PERFORATED 167-267 FT (50.9-81.4 M). LSD ABOUT 6,363 FT (1,939 M) NGVD OF 1929. RECORDER INSTALLED JULY 27, 1977. MP NO. 2 TOP OF CASING NORTHEAST SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE SEPT. 30, 1966).

RECORDS AVAILABLE 1966 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 80.24 FEET BELOW LAND SURFACE DATUM OCT 10, 1969.

LOWEST WATER LEVEL 85.72 FEET BELOW LAND SURFACE DATUM MAY 15, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	82.50	JAN 10, 1980	82.08	APR 15, 1980	83.95	JUL 15, 1980	82.69
10	82.65	15	82.43	20	83.93	20	82.24
15	82.78	18	82.49	25	83.89	25	82.07
17	82.90	20	82.73	30	83.89	31	82.56
20	82.51	25	82.64	MAY 05	83.97	AUG 05	82.40
25	82.12	31	82.82	10	83.71	10	82.52
31	81.99	FEB 05	82.98	13	84.25	15	82.43
NOV 05	81.95	10	82.95	15	83.94	20	82.52
10	81.89	15	82.79	17	83.83	25	82.44
15	82.09	20	82.75	20	83.78	31	82.46
20	81.98	25	83.23	25	84.19	SEP 05	82.03
25	81.86	28	83.21	31	83.51	10	81.57
26	81.79	MAR 05	83.07	JUN 05	83.57	11	81.42
30	82.11	10	83.28	10	83.70	15	81.25
DEC 05	82.07	15	83.23	15	83.80	20	81.12
10	81.93	20	83.46	20	83.74	25	81.15
15	82.08	24	83.50	25	83.59	28	81.06
20	82.11	25	83.46	30	83.53	30	81.13
25	82.11	31	83.59	JUL 05	83.37		
31	82.35	APR 05	83.66	10	83.28		
JAN 05, 1980	82.31	10	83.82	11	83.31		

WELL 14S 38E 15CDC1 SITE NUMBER 421156112002701

FORMERLY SITE ID NO. 421155112002801. DRILLEDIRRIGATION WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE. DIAM 12 IN (30 CM). REPORTED DEPTH 200 FT (61.0 M). CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,795 FT (1,462 M) NGVD OF 1929. MPNO. 1 TOP OF HOLE IN PUMPBASE WEST SIDE. 0.70 FT (0.213 M) ABOVE LSD (SINCE APR. 3, 1967).

RECORDS AVAILABLE 1967 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.61 FEET BELOW LAND SURFACE DATUM APR 25, 1969.

LOWEST WATER LEVEL 43.02 FEET BELOW LAND SURFACE DATUM SEP 20, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	31.39 V S	FEB 07, 1980	25.98 V S	MAY 14, 1980	21.31 V S	SEP 09, 1980	25.62 V S
DEC 12	28.37 V S	MAR 26	24.83 V S	JUL 15	27.07 V S		

WELL 15S 39E 23BBA1 SITE NUMBER 420639111522901

FORMERLY SITE ID NO. 420639111523101. DUG IRRIGATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE. DIAM 42 IN (107 CM). DEPTH 11.0 FT (3.4 M). CASING DEPTH NOT AVAILABLE. LSD 4,725.40 FT (1,440.302 M) NGVD OF 1929. MP NO. 1 HASH MARK ON BENT LIP OF CASING NORTHWEST SIDE. 2.00 FT (0.610 M) ABOVE LSD (SINCE JULY 19, 1967).

RECORDS AVAILABLE 1967 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.74 FEET BELOW LAND SURFACE DATUM MAR 28, 1973.

LOWEST WATER LEVEL 6.14 FEET BELOW LAND SURFACE DATUM NOV 09, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	4.71 S	FEB 07, 1980	3.33 S	MAY 14, 1980	1.66 S	SEP 10, 1980	3.37 S
DEC 12	6.05 S	MAR 26	1.81 S	JUL 15	3.14 S		

WELL 16S 39E 18CDA1 SITE NUMBER 420150111564701

FORMERLY SITE ID NO. 420152111564801. DRILLEDIRRIGATION WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE. DIAM 14 IN (36 CM). REPORTED DEPTH 462 FT (140.8 M). CASED TO 462 FT (140.8 M). PERFORATED 204-212 FT (62.2-64.6 M). 238-242 FT (72.5-73.8 M). 252-265 FT (76.8-80.8 M). 271-273 FT (82.6-83.2 M). LSD 4,542.7 FT (1,384.62 M) NGVD OF 1929. MP NO. 3 TOP OF 14-IN (36-CM) CASING NORTH SIDE. 2.20 FT (0.670 M) BELOW LSD (SINCE MAY 23, 1979).

RECORDS AVAILABLE 1967 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.71 FEET BELOW LAND SURFACE DATUM JUL 03, 1969.

LOWEST WATER LEVEL 51.69 FEET BELOW LAND SURFACE DATUM SEP 23, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	46.19 T	FEB 07, 1980	35.58 S	MAY 14, 1980	26.17 S	SEP 09, 1980	38.72 S
DEC 12	40.26 S	MAR 26	31.49 S	JUL 15	38.81 S		

WELL 16S 40E 29CCB1 SITE NUMBER 420011111485501

FORMERLY SITE ID NO. 420014111490001, WELL NO. 16S 40E 29CAC1. DRILLED UNUSED WATER-TABLE WELL IN UNCONSOLIDATED ALLUVIUM OF QUATERNARY AGE, DIAM 10 IN (25 CM), DEPTH 81.5 FT (24.8 M), CASING DEPTH NOT AVAILABLE. LSD 4,504.9 FT (1,373.09 M) NGVD OF 1929. RECORDER INSTALLED NOV. 3, 1967. RECORDER REMOVED AUG. 31, 1971. DIGITAL RECORDER INSTALLED NOV. 21, 1978. MP NO. 1 TOP OF 10-IN (25-CM) CASING EAST SIDE, 1.90 FT (0.579 M) ABOVE LSD(SINCE JULY 10, 1967).

RECORDS AVAILABLE 1967 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.97 FEET BELOW LAND SURFACE DATUM JUN 27, 1971.

LOWEST WATER LEVEL 23.42 FEET BELOW LAND SURFACE DATUM FEB 20, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 05, 1979	9.88		DEC 25, 1979	19.35	MAR 26, 1980	8.34	S	AUG 05, 1980	9.08
10	11.04		31	19.35	31	7.87		10	9.67
15	12.26		JAN 05, 1980	19.35	APR 03	7.16		15	10.52
20	12.90		10	17.82	05	7.16		20	11.31
25	13.27		15	8.27	10	7.37		25	11.97
31	14.03		20	10.77	15	7.77		31	12.89
DEC 12	19.25	S	25	12.03	20	8.20		SEP 05	13.70
13	19.36		31	12.98	25	8.42		06	13.80
14	19.36		FEB 05	13.58	30	8.83		10	13.77
15	19.36		10	14.16	MAY 05	9.27		11	13.70
16	19.36		15	12.45	10	9.37		15	14.10
17	19.36		20	8.88	14	7.93	S	20	14.80
18	19.36		25	8.90	JUL 15	9.03	S	25	15.54
19	19.36		29	8.91	20	9.05		30	16.27
20	19.36		MAR 05	7.95	25	8.87			
21	19.36		07	7.70	31	8.55			

WELL 15N 43E 13BCA1 SITE NUMBER 443745111195401

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUMOF PLEISTOCENE AGE, DIAM 6 IN (15 CM), REPORTED DEPTH 155 FT (47.2 M), CASED TO 155 FT (47.2 M). LSD ABOUT 6,620 FT (2,017 M) NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN (1.9-CM) HOLE IN WELL SEAL, 1.50 FT (0.457 M) ABOVE LSD (SINCE JUNE 12, 1974).

RECORDS AVAILABLE 1974 - 1975, 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 98.78 FEET BELOW LAND SURFACE DATUM AUG 21, 1974.

LOWEST WATER LEVEL 121.74 FEET BELOW LAND SURFACE DATUM APR 12, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	112.85	S	FEB 12, 1980	118.27	S	MAY 21, 1980	116.76	S	SEP 03, 1980	105.74	S
JAN 03, 1980	116.11	S	APR 08	120.81	S	JUL 17	106.90	S			

WELL 14N 43E 02AAC1 SITE NUMBER 443419111202401

DRILLED DOMESTIC WATER-TABLE WELL IN LAVA CREEK TUFF, DIAM 6 IN (15 CM), REPORTED DEPTH 125 FT (38.1 M), CASED TO 19 FT (5.8 M). LSD ABOUT 6,516 FT (1,986 M) NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL SOUTH SIDE, 4.40 FT (1.341 M) BELOWLSD (SINCE JULY 25, 1969).

RECORDS AVAILABLE 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 83.18 FEET BELOW LAND SURFACE DATUM MAY 17, 1972.

LOWEST WATER LEVEL 106.97 FEET BELOW LAND SURFACE DATUM JUN 21, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	88.15	S	MAY 21, 1980	86.76	S	JUL 17, 1980	87.11	S	SEP 03, 1980	87.12	S
JAN 03, 1980	88.25	S									

WELL 13N 43E 15ADC1 SITE NUMBER 442709111213501

DRILLED COMMERCIAL WATER-TABLE WELL IN LAVA CREEK TUFF, DIAM 6 IN (15.2 CM), REPORTED DEPTH 58 FT (17.7 M), CASED TO 38 FT (11.6 M), PERFORATED38-58 FT (11.6-17.7 M). LSD ABOUT 6,300 FT (1,920 M) NGVD OF 1929. MP NO. 1 TOP OF HOLE IN WELL SEAL, 0.30 FT (0.091 M) ABOVE LSD (SINCE JULY 10, 1974).

RECORDS AVAILABLE 1974 - 1975, 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.28 FEET BELOW LAND SURFACE DATUM MAY 21, 1976.

LOWEST WATER LEVEL 18.42 FEET BELOW LAND SURFACE DATUM NOV 14, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	18.42	S	FEB 12, 1980	17.42 R	S	MAY 21, 1980	14.07 R	S	SEP 03, 1980	17.04	S
JAN 03, 1980	17.81	S	APR 08	16.97 R	S	JUL 17	15.13	S			

WELL 09N 42E 34DDA1 SITE NUMBER 440332111283201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN (41 CM), REPORTED DEPTH 110 FT (33.5 M), CASED TO 7 FT (2.1 M). LSD ABOUT 5,228 FT (1,594 M) NGVD OF 1929. MP NO. 2 TOP OF HOLE IN PUMPBASE SOUTH SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE JULY 25, 1969).

RECORDS AVAILABLE 1962, 1969 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 8.30 FEET BELOW LAND SURFACE DATUM MAR 20, 1972.

LOWEST WATER LEVEL 14.76 FEET BELOW LAND SURFACE DATUM MAR 03, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	10.92	S	FEB 13, 1980	12.62	S	MAY 30, 1980	10.72	S	AUG 06, 1980	20.52	P S
JAN 04, 1980	11.92	S	MAR 28	12.35	S	JUL 18	19.45	P S	SEP 08	10.52	S

WELL 09N 44E 21AAD1 SITE NUMBER 440547111151601

DRILLED UNUSED WATER-TABLE WELL IN LAVA CREEKTUFF, DIAM 6 IN (15 CM), REPORTED DEPTH 132 FT (40.2 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,660 FT (1,725 M) NGVD OF 1929. MP NO. 1 TOP OF CASING, 0.70 FT (0.213 M) ABOVE LSD (SINCE AUG. 7, 1974).

RECORDS AVAILABLE 1974 - 1975, 1976, 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 81.94 FEET BELOW LAND SURFACE DATUM JUN 22, 1976.

LOWEST WATER LEVEL 116.38 FEET BELOW LAND SURFACE DATUM MAY 23, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 08, 1979	114.19	S	JUL 18, 1980	110.09	S	AUG 01, 1980	109.85	S	SEP 08, 1980	109.46	S
MAY 22, 1980	114.86	S									

WELL 07N 40E 05DBC1 SITE NUMBER 435736111460201

DRIVEN OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF QUATERNARY AGE, DIAM 1 1/4 IN (3.2 CM), DEPTH 39.3 FT (12.0 M), CASED TO 39.3 FT (12.0 M), SAND POINT 37.3-39.3 FT (11.4-12.0 M). LSD 4,919.86 FT (1,499.57 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF COLLAR, 0.70 FT (0.213 M) ABOVE LSD (SINCE NOV. 8, 1966).

RECORDS AVAILABLE 1966 - 1980, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.75 FEET BELOW LAND SURFACE DATUM AUG 05, 1974.

LOWEST WATER LEVEL 14.71 FEET BELOW LAND SURFACE DATUM MAR 15, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 09, 1979	6.01	S	JAN 16, 1980	11.71	S	MAR 25, 1980	12.30	S	AUG 05, 1980	3.10	S
NOV 08	7.59	S	FEB 13	13.20	S	JUN 24	3.27	S	SEP 09	4.28	S
DEC 12	9.61	S	MAR 18	12.91	S	JUL 15	3.07	S			

WELL 07N 42E 06DDA1 SITE NUMBER 435727111321901

DRILLED IRRIGATION WATER-TABLE WELL IN SILICIC VOLCANIC ROCK OF TERTIARY AGE, DIAM 20 IN (51 CM), REPORTED DEPTH 910 FT (277.4 M), CASED TO 125FT (38.1 M), LSD 5,264.46 FT (1,604.607 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. SOME MEASUREMENTS AFTER APR. 21, 1975, MADE BY US BUREAU OF RECLAMATION. MP NO. 2 HOLE INSIDE PUMPBASE SOUTH SIDE, 0.80 FT (0.244 M) ABOVE LSD (SINCE MAY 22, 1974).

RECORDS AVAILABLE 1962, 1966 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 212.49 FEET BELOW LAND SURFACE DATUM MAY 21, 1975.

LOWEST WATER LEVEL 288.83 FEET BELOW LAND SURFACE DATUM AUG 13, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
JUN 02, 1980	266.45	S	AUG 06, 1980	255.82	S	SEP 10, 1980	252.83	S

WELL 07N 42E 10DCD1 SITE NUMBER 435628111290001

DRILLED OBSERVATION WATER-TABLE WELL IN TERTIARY VOLCANICS, DIAM 6 IN (15 CM), REPORTED DEPTH 650 FT (198.1 M), CASED TO 650 FT (198.1 M), PERFORATED 620 TO 650 FT (189.0-198.1 M). LSD 5,329.60 FT (1,624.462 M) NGVD OF 1929. RECORDER INSTALLED JUNE 14, 1976. MP NO. 2 TOP OF CASING NORTHEAST SIDE, 1.98 FT (0.604 M) ABOVE LSD (SINCE JUNE 14, 1976).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 121.30 FEET BELOW LAND SURFACE DATUM JUN 01, 1976.

LOWEST WATER LEVEL 177.24 FEET BELOW LAND SURFACE DATUM DEC 13, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1979	166.22		JAN 05, 1980	171.74		APR 20, 1980	148.56		JUL 14, 1980	154.94	S
10	166.58		10	172.00		25	148.95		15	155.12	
15	166.84		11	172.34		30	149.16		20	155.55	
20	166.92		15	168.82		MAY 05	149.62		25	155.94	
25	167.27		20	160.42		10	149.72		28	156.10	
31	167.65		25	156.80		15	149.62		AUG 06	156.85	S
NOV 05	168.07		31	157.81		17	150.48		10	157.20	
10	168.28		FEB 05	158.37		28	151.27		15	157.52	
15	168.77	S	10	158.93		29	151.27		20	158.04	
20	169.02		11	159.02	S	31	151.42		25	158.29	
25	169.20		12	159.08		JUN 02	151.56		31	158.67	
30	169.55		MAR 21	147.44	S	05	151.27		SEP 05	159.16	
DEC 05	169.78		23	146.64		10	152.06		09	159.46	
10	169.95		25	147.02		15	152.63		10	159.35	
15	170.50		31	147.45		20	152.87		15	159.76	
20	170.98		APR 05	147.57		25	153.16		20	160.11	
25	171.41		10	147.93		30	153.51		25	160.61	
31	171.54		15	148.37		JUL 05	153.89		30	161.01	

WELL 07N 44E 02AAA1 SITE NUMBER 435808111131101

DRILLED DOMESTIC WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN (15 CM), DEPTH AND CASING NOT AVAILABLE. LSD ABOUT 6,040 FT (1,841 M) NGVD OF 1929. NOV. 29, 1976 WELL DEPTH 213.5 FT (65.1 M). MP NO. 3 TOP OF CASING NORTH SIDE, 2.32 FT (0.707 M) ABOVE LSD (SINCE JULY 14, 1980).

RECORDS AVAILABLE 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 97.05 FEET BELOW LAND SURFACE DATUM OCT 15, 1976.

LOWEST WATER LEVEL 125.96 FEET BELOW LAND SURFACE DATUM APR 18, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 18, 1980	125.96	T	JUL 14, 1980	123.66	S	SEP 10, 1980	124.24	T

WELL 05S 15E 35DBD2 SITE NUMBER 425635114382302

FORMERLY SITE ID NO. 425634114382601, WELL NO. 05S-15E-35DBC2. DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 5 IN (13 CM), DEPTH 165.1 FT (50.3 M) CASED TO 126 FT (38.4 M). LSD 3,627.31 FT (1,105.604 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 5-IN (13-CM) CASING EAST SIDE, 1.29 FT (0.393 M) ABOVE LSD (SINCEJUNE 6, 1972).

RECORDS AVAILABLE 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 120.84 FEET BELOW LAND SURFACE DATUM SEP 22, 1972.

LOWEST WATER LEVEL 146.53 FEET BELOW LAND SURFACE DATUM FEB 22, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24, 1979	136.08 R S	JAN 20, 1980	139.50 S	JUL 25, 1980	140.04 S	SEP 17, 1980	135.12 S
NOV 14	137.86 R S	MAR 19	142.36 S	AUG 06	138.89 S		
DEC 18	137.73 S	MAY 21	144.73 S	20	137.64 R S		

WELL 08S 14E 16CBB1 SITE NUMBER 424353114494701

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 53.0 FT (16.2 M), GALVANIZED IRON CASING TO BASALT BEDROCK. SEPT. 1957 WELL WAS CASED TO 50 FT (15.2 M) WITH 5-IN (13-CM) ALUMINUM PIPE. LSD 3,175.27 FT (967.822 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED OCT. 6, 1954. RECORDER REMOVED AUG. 10, 1971. DIGITAL RECORDER INSTALLED JULY 19, 1977. MP NO. 3 TOP OF 5-IN (13-CM) ALUMINUM CASING FLANGE WEST SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE SEPT. 11, 1957).

RECORDS AVAILABLE 1951 - 1953, 1954 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 36.50 FEET BELOW LAND SURFACE DATUM SEP 22, 1953.

LOWEST WATER LEVEL 40.67 FEET BELOW LAND SURFACE DATUM MAY 26, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	38.53	DEC 20, 1979	38.99	MAR 10, 1980	39.70	JUL 15, 1980	39.94
10	38.55	25	39.03	15	39.73	20	39.96
15	38.47	31	39.12	20	39.76	25	39.88
19	38.39	JAN 05, 1980	39.16	25	39.80	31	39.65
20	38.40	10	39.16	31	39.84	AUG 05	39.53
25	38.42	15	39.24	MAY 22	40.23	10	39.52
31	38.46	20	39.32	25	40.08	15	39.39
NOV 05	38.50	25	39.33	31	39.95	20	39.25
10	38.52	31	39.41	JUN 05	39.77	25	39.22
15	38.60	FEB 05	39.46	10	39.86	31	39.10
20	38.65	10	39.50	15	39.88	SEP 05	39.09
25	38.69	15	39.50	20	40.08	10	38.92
30	38.79	20	39.51	25	40.02	15	38.65
DEC 05	38.83	25	39.60	30	40.12	20	36.82
10	38.86	29	39.64	JUL 05	39.99	25	38.62
15	38.93	MAR 05	39.65	10	40.04	30	38.51

WELL 08S 16E 18AAA1 SITE NUMBER 424414114370201

DRILLED DOMESTIC WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), REPORTED DEPTH 197 FT (60.0 M), CASED TO 6 FT (1.8 M). LSD 3,516.30FT (1,071.768 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 7/8-IN (2.2-CM) HOLE IN WELL SEAL WEST SIDE, 0.80 FT (0.244 M) ABOVE LSD (SINCE SEPT. 23, 1971).

RECORDS AVAILABLE 1951 - 1954, 1956 - 1968, 1969 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 149.32 FEET BELOW LAND SURFACE DATUM OCT 22, 1952.

LOWEST WATER LEVEL 172.99 FEET BELOW LAND SURFACE DATUM MAR 23, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 13, 1980	171.60 S	AUG 09, 1980	165.17 V	SEP 09, 1980	162.45 V

WELL 09S 14E 03BAA1 SITE NUMBER 424053114480301

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 99.0 FT (30.2 M), CASED TO BEDROCK. LSD 3,203.24 FT (976.348 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MAR. 24, 1972, WELL HAD FILLED IN TO A DEPTH OF 93.5 FT (26.8 M). MP NO. 2 TOP OF CASING, 0.70 FT (0.213 M) ABOVE LSD (SINCE OCT. 18, 1951).

RECORDS AVAILABLE 1929, 1951 TO CURRENT YEAR.

HIGHEST WATER LEVEL 69.58 FEET BELOW LAND SURFACE DATUM OCT 16, 1956.

LOWEST WATER LEVEL 75.29 FEET BELOW LAND SURFACE DATUM MAY 22, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	72.49	S	MAR 31, 1980	74.50	S	JUL 27, 1980	74.16	S	SEP 16, 1980	72.65	S
JAN 20, 1980	73.69	S	MAY 21	74.93	S	AUG 05	73.82	S			

WELL 09S 16E 07DCA1 SITE NUMBER 423920114371501

DRILLED DOMESTIC AND STOCK WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 128.0 FT (39.0 M), CASED TO 32 FT (9.8 M). LSD 3,447.50 FT (1,050.798 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 1/2-IN (1.3-CM) HOLE IN WELL SEAL, 4.56 FT (1.390 M) BELOW LSD (SINCE JULY 19, 1971).

RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 91.34 FEET BELOW LAND SURFACE DATUM SEP 22, 1958.

LOWEST WATER LEVEL 114.38 FEET BELOW LAND SURFACE DATUM JAN 08, 1952.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	105.13 R	S	MAR 31, 1980	113.10	S	JUL 27, 1980	99.06	S	SEP 10, 1980	98.26	S
JAN 20, 1980	110.95	S	MAY 21	106.32	S	AUG 09	98.96	S			

WELL 08N 34E 17CCC3 SITE NUMBER 440058112293601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 440 FT (134.1 M), CASED TO 510 FT (155.4 M), PERFORATED 340-350 FT (103.6-106.7 M), PLUGGED BACK WITH CONCRETE SEAL 440-462 FT (134.1-140.8 M). LSD4,808.92 FT (1,465.759 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE EAST SIDE, 3.76 FT (1.146 M) ABOVE LSD (SINCE FEB. 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 38.94 FEET BELOW LAND SURFACE DATUM APR 16, 1976.

LOWEST WATER LEVEL 67.60 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	50.99	S	FEB 14, 1980	43.48	S	MAY 30, 1980	48.78	S	AUG 06, 1980	67.60	S
DEC 27	45.43	S	APR 04	42.63	S	JUL 24	63.52	S	SEP 09	60.22	S

WELL 08N 34E 17CCC4 SITE NUMBER 440058112293602

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 545 FT (166.1 M), 1-IN (2.5-CM) PIEZOMETER TUBE 0-519 FT (0-158.2 M), PERFORATED 511.5-516.5 FT (155.9-157.4 M), 6-IN (15-CM) CASING 0-510 FT (0-155.4 M), GRAVEL PACKED 462-545 FT (140.8-166.1 M), CONCRETE SEAL 440-462 FT (134.1-140.8 M), 545-562 FT (166.1-171.3 M). LSD 4,808.92 FT (1,465.759 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 1-IN (2.5-CM) PIPE EAST SIDE, 3.43 FT (1.045 M) ABOVE LSD (SINCE FEB. 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 39.60 FEET BELOW LAND SURFACE DATUM APR 24, 1973.

LOWEST WATER LEVEL 59.26 FEET BELOW LAND SURFACE DATUM SEP 09, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	56.24	S	FEB 14, 1980	46.79	S	MAY 30, 1980	44.96	S	AUG 06, 1980	56.32	S
DEC 27	50.33	S	APR 04	44.85	S	JUL 24	52.65	S	SEP 09	59.26	S

WELL 08N 34E 17CCC5 SITE NUMBER 440058112293603

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 888 FT (270.7 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-610 FT (0-185.9 M), PERFORATED 602.5-607.5 FT (183.6-185.2 M), GRAVEL PACKED 562-888 (171.3-270.7 M), CONCRETE SEAL 545-562 FT (166.1-171.3 M), 888-914 FT (270.7-278.6 M). LSD 4,808.92 FT (1,465.759 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE EAST SIDE, 3.27 FT (0.997 M) ABOVE LSD (SINCE FEB. 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 163.41 FEET BELOW LAND SURFACE DATUM APR 16, 1976.

LOWEST WATER LEVEL 176.54 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	169.20	S	FEB 14, 1980	167.24	S	MAY 30, 1980	171.28	S	AUG 06, 1980	176.54	S
DEC 27	168.22	S	APR 04	166.86	S	JUL 24	175.06	S	SEP 09	172.38	S

WELL 08N 34E 17CCC6 SITE NUMBER 440058112293604

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 1,006.5 FT (306.8 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-930 FT (0-283.5 M), PERFORATED 922.5-927.5 FT (281.2-282.7 M), GRAVEL PACKED 914-1,006.5 FT (278.6-306.8 M), CONCRETE SEAL888-914 FT (270.7-278.6 M). LSD 4,808.92 FT (1,465.759 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE EAST SIDE, 2.97 FT (0.905 M) ABOVE LSD (SINCEFEB. 10, 1970).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 220.17 FEET BELOW LAND SURFACE DATUM MAY 15, 1974.

LOWEST WATER LEVEL 225.89 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	224.83	S	FEB 14, 1980	223.58	S	MAY 30, 1980	224.20	S	AUG 06, 1980	225.89	S
DEC 27	224.46	S	APR 04	223.47	S	JUL 24	225.36	S	SEP 09	225.83	S

WELL 08N 34E 17CCC7 SITE NUMBER 440058112293605

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 47.6 FT (14.5 M), CASED TO 47.5 FT (14.5 M), PERFORATED 40-47 FT (12.2-14.3 M). LSD 4,808.92 FT (1,465.759 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 6-IN (15-CM) CASING EAST SIDE, 0.90 FT (0.274 M) ABOVE LSD (SINCEJUNE 24, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 21.36 FEET BELOW LAND SURFACE DATUM APR 25, 1972.

LOWEST WATER LEVEL 40.29 FEET BELOW LAND SURFACE DATUM SEP 23, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	30.58	S	FEB 14, 1980	28.58	S	MAY 30, 1980	29.77	S	AUG 06, 1980	30.15	S
DEC 27	30.37	S	APR 04	26.95	S	JUL 24	30.22	S	SEP 09	30.25	S

WELL 07N 33E 35BCC1 SITE NUMBER 435332112331801

FORMERLY SITE ID NO. 435336112331801. WELL NO. 07N 33E 35BBC1. BORED OBSERVATION WATER-TABLE WELL IN SANDY SILT OF QUATERNARY AGE, DIAM 1 1/4 IN (3.2 CM), DEPTH 54.5 FT (16.6 M), CASED TO 54.5 FT (16.6 M), SANDPOINT 52.4-54.5 FT (16.0-16.6 M). LSD ABOUT 4,784 FT (1,458 M) NGVD OF 1929. MP NO. 1 TOP OF 1 1/4-IN (3.2-CM) PIPE WEST SIDE, 1.80FT (0.549 M) ABOVE LSD (SINCE MAY 26, 1967).

RECORDS AVAILABLE 1967 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 14.59 FEET BELOW LAND SURFACE DATUM SEP 11, 1980.

LOWEST WATER LEVEL 30.72 FEET BELOW LAND SURFACE DATUM MAY 15, 1974.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 15, 1980	29.20	S	AUG 06, 1980	14.97	S	SEP 11, 1980	14.59	S

WELL 07N 34E 04CDC1 SITE NUMBER 435728112281101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 57.3 FT (17.5 M), CASED TO 41 FT (12.5 M). LSD 4,791.76 FT (1,460.528 M) NGVD OF 1929. OCT 4, 1972, WELL HAD FILLED IN TO A DEPTH OF 51.2 FT (15.6 M). RECORDER INSTALLED FEB. 13, 1957. RECORDER REMOVED AUG. 19, 1971. MP NO. 2 TOP OF HOLE IN CASING COVER, 2.02 FT (0.616 M) ABOVE LSD (SINCE SEPT. 10, 1975).

RECORDS AVAILABLE 1956, 1957 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.55 FEET BELOW LAND SURFACE DATUM MAY 02, 1956.

LOWEST WATER LEVEL 30.50 FEET BELOW LAND SURFACE DATUM AUG 13, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	22.28	S	FEB 14, 1980	11.21	S	MAY 30, 1980	17.52	S	AUG 06, 1980	28.71	S
DEC 27	15.22	S	APR 14	10.10	S	JUL 24	26.63	S	SEP 09	26.78	S

WELL 07N 35E 20CBD1 SITE NUMBER 435504112222301

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 20 IN (51 CM), DEPTH 58.1 FT (17.7 M), CASED TO 45 FT (13.7 M). LSD 4,818.15 FT (1,468.572 M) NGVD OF 1929. MAY 15, 1967, WELL DEEPENED AND RECASED, DIAM 12 IN (30 CM), DEPTH 65.9 FT (20.1 M), CASED TO 66 FT (20.1 M), PERFORATED 55-65 FT (16.8-19.8 M). RECORDER INSTALLED SEPT. 5, 1955. RECORDER CHANGED TO DIGITAL APR. 2, 1973. LOWEST WATER LEVELS RECORDED WERE DRY AT 57.95 FT SEPT. 9-17, 1961, BEFORE WELL WAS DEEPENED TO A DEPTH OF 65.9 FT. MP NO. 4 TOP OF 12-IN (30-CM) CASING NORTHEAST SIDE, 2.00 FT (0.610 M) ABOVE LSD (SINCE MAY 16, 1967).

RECORDS AVAILABLE 1954, 1955 TO CURRENT YEAR.

HIGHEST WATER LEVEL 30.87 FEET BELOW LAND SURFACE DATUM MAY 04, 1972.

LOWEST WATER LEVEL 58.39 FEET BELOW LAND SURFACE DATUM OCT 22, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	57.82	JAN 05, 1980	43.69	APR 05, 1980	43.60	JUL 10, 1980	43.38
10	58.01	10	43.14	10	44.16	15	44.72
15	58.19	15	42.76	15	44.63	20	46.34
20	58.33	20	42.39	20	44.96	25	47.89
22	58.39	25	41.83	25	45.35	31	49.54
25	56.91	31	41.44	30	45.66	AUG 05	50.73
31	54.60	FEB 05	41.03	MAY 05	45.99	10	51.89
NOV 05	53.24	10	40.61	10	46.26	15	52.86
10	52.09	14	40.24	15	46.67	20	53.68
15	51.11	15	40.22	20	46.74	25	54.50
20	50.13	20	39.80	25	45.52	31	55.14
25	49.20	25	39.62	31	44.53	SEP 05	55.68
30	48.43	29	39.34	JUN 05	43.91	08	55.90
DEC 05	47.60	MAR 05	38.92	10	43.37	09	55.90
10	46.80	10	38.67	15	42.97	10	55.70
15	46.19	15	39.91	20	42.61	15	54.72
20	45.53	20	41.13	25	42.49	20	53.24
25	44.94	25	42.05	30	42.64	25	52.14
31	44.28	31	42.98	JUL 05	42.87	30	51.19

WELL 07N 36E 22ABD4 SITE NUMBER 435528112121201

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 24.5 FT (7.5 M), CASED TO 18 FT (5.5 M). LSD 4,791.73 FT (1,460.519 M) NGVD OF 1929. RECORDER INSTALLED FEB. 12, 1957. RECORDER REMOVED AUG. 19, 1971. DIGITAL RECORDER INSTALLED JULY 9, 1977. RECORDER REMOVED SEPT. 15, 1977. MP NO. 4 TOP OF CASING COVER NORTHEAST SIDE, 2.02 FT (0.616 M) ABOVE LSD (SINCE DEC. 13, 1977).

RECORDS AVAILABLE 1955 - 1956, 1957 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.14 FEET BELOW LAND SURFACE DATUM MAR 21, 1972.

LOWEST WATER LEVEL 9.49 FEET BELOW LAND SURFACE DATUM SEP 09, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 08, 1980	8.24	P S	AUG 07, 1980	9.91	P S	SEP 09, 1980	9.49	S

WELL 07N 37E 28CCD1 SITE NUMBER 435402112065001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 135.0 FT (41.2 M), CASED TO 103 FT (31.4 M). LSD 4,848.92 FT (1,477.951 M) NGVD OF 1929. MP NO. 2 TOP OF 1 1/4-IN (3.2-CM) PIPE COUPLING IN WELL SEAL, 0.70 FT (0.213 M) ABOVE LSD (SINCE JUNE 13, 1978).

RECORDS AVAILABLE 1960 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 61.28 FEET BELOW LAND SURFACE DATUM APR 24, 1973.

LOWEST WATER LEVEL 66.40 FEET BELOW LAND SURFACE DATUM AUG 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 08, 1980	65.38	S	AUG 11, 1980	66.40	S	SEP 09, 1980	66.20	S

WELL 06N 32E 11ABA1 SITE NUMBER 435212112394001

FORMERLY SITE ID NO. 435215112394201. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 266.5 FT (81.2 M), CASED TO 266 FT (81.1 M), PERFORATED 232-266 FT (70.7-81.1 M), CEMENTED BOTTOM. LSD 4,789.79 FT (1,459.928 M) NGVD OF 1929. RECORDER INSTALLED NOV. 22, 1952. RECORDER REMOVED OCT. 13, 1954. MP NO. 2 TOP NORTHEAST SIDE 6 1/4-IN (16-CM) CASING AT PAINTED SPOT, 1.87 FT (0.570 M) ABOVE LSD (SINCE NOV. 10, 1952).

RECORDS AVAILABLE 1952 - 1954, 1955 - 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 204.30 FEET BELOW LAND SURFACE DATUM APR 23, 1974.

LOWEST WATER LEVEL 210.03 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1979	209.14	S	JAN 22, 1980	208.71	S	APR 18, 1980	207.92	S	JUL 22, 1980	209.13	S
NOV 20	209.21	S	FEB 25	208.41	S	MAY 30	208.08	S	AUG 12	209.52	S
DEC 18	208.93	S	MAR 15	207.98	S	JUN 21	208.25	S	SEP 24	210.03	S

WELL 06N 32E 26CDB1 SITE NUMBER 434856112400001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, 8 IN (20 CM), DEPTH 321.8 FT (98.1 M), CASED TO 321.8 FT (98.1 M), PERFORATED 237-314 FT (72.2-95.7 M), GRAVEL PACKED, CEMENTED BOTTOM. LSD 4,787.92 FT (1,459.358 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF THREADED 8-IN (20-CM) CASING NORTHEASTSIDE, 2.00 FT (0.610 M) ABOVE LSD (SINCE AUG. 1, 1956).

RECORDS AVAILABLE 1956 - 1959, 1960 - 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 217.20 FEET BELOW LAND SURFACE DATUM APR 23, 1974.

LOWEST WATER LEVEL 222.95 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1979	222.20	S	JAN 22, 1980	221.96	S	APR 18, 1980	221.12	S	JUL 19, 1980	221.54	S
NOV 21	222.54	S	FEB 25	221.64	S	MAY 30	221.08	S	SEP 24	222.95	S
DEC 18	222.12	S	MAR 13	221.14	S	JUN 21	221.17	S			

WELL 06N 33E 26DDB1 SITE NUMBER 434851112321801

FORMERLY SITE ID NO. 434854112322101. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 312 FT (95.1 M), CASED TO 312 FT (95.1 M), PERFORATED 250-260 FT (76.2-79.2 M), 298-308 FT (90.8-93.9 M), CEMENTED BOTTOM. LSD 4,784.32 FT (1,458.261 M) NGVD OF 1929. RECORDER INSTALLED JUNE 13, 1953. RECORDER REMOVED APR. 23, 1956. MP NO. 2 TOP OF THREADED 6 1/4-IN (16-CM) CASING NORTHEAST SIDE, 2.00 FT (0.610 M) ABOVE LSD (SINCE FEB. 12, 1953).

RECORDS AVAILABLE 1952, 1953 - 1956, 1957 TO CURRENT YEAR.

HIGHEST WATER LEVEL 220.85 FEET BELOW LAND SURFACE DATUM APR 11, 1973.

LOWEST WATER LEVEL 224.55 FEET BELOW LAND SURFACE DATUM OCT 06, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
MAR 13, 1980	223.62	S

WELL 06N 35E 21AAB1 SITE NUMBER 435028112202601

DRILLED IRRIGATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 16 TO 14 IN (41 TO 36 CM), DEPTH 275.5 FT (84.0 M), 16-IN (41-CM) CASING 0-95 FT (0-29.0 M), 14-IN (36-CM) CASING 135-205 FT (41.2-62.5 M) LSD 4,784.50 FT (1,458.316 M) NGVD OF 1929. MAY 15, 1967, WELL WAS RECONDITIONED. MP NO. 5 TOP OF HOLE INSIDE PUMPBASE NORTH SIDE, 1.73 FT (0.527 M) ABOVE LSD (SINCE JULY 14, 1967).

RECORDS AVAILABLE 1949 - 1951, 1952 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 92.42 FEET BELOW LAND SURFACE DATUM NOV 01, 1974.

LOWEST WATER LEVEL 113.83 FEET BELOW LAND SURFACE DATUM JUL 23, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL
APR 15, 1980	100.64	S	AUG 07, 1980	127.02 P S

WELL 06N 35E 27DDA1 SITE NUMBER 434857112185801

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN (51 CM), REPORTED DEPTH 260 FT (79.2 M), CASED TO 8 FT (2.4 M), LSD 4,798.23FT (1,462.500 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 4 TOP OF 1-IN (2.5-CM) AIRLINE HOLE IN PUMPBASE WEST SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE SEPT. 16, 1963).

RECORDS AVAILABLE 1957 - 1964, 1965 TO CURRENT YEAR.

HIGHEST WATER LEVEL 230.13 FEET BELOW LAND SURFACE DATUM MAR 21, 1973.

LOWEST WATER LEVEL 240.48 FEET BELOW LAND SURFACE DATUM SEP 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 15, 1980	236.08 V	S	SEP 11, 1980	240.48	S

WELL 06N 36E 27BAA1 SITE NUMBER 434933112122701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 8 IN (20 CM), DEPTH 227.5 FT (69.3 M), CASED TO 8 FT (2.4 M), LSD 4,884.31FT (1,488.738 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 8-IN (20-CM) CASING NORTH SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE JULY 19, 1968).

RECORDS AVAILABLE 1960 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 180.95 FEET BELOW LAND SURFACE DATUM MAR 18, 1974.

LOWEST WATER LEVEL 186.58 FEET BELOW LAND SURFACE DATUM SEP 19, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	184.85	S	FEB 14, 1980	184.49	S	JUN 09, 1980	185.24	S	AUG 08, 1980	186.11	S
DEC 27	184.63	S	APR 15	184.79	S	JUL 23	185.88	S	SEP 11	185.58	S

WELL 06N 38E 30BAD2 SITE NUMBER 434924112013801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), REPORTED DEPTH 308 FT (93.9 M), CASED TO 308 FT (93.9 M), PERFORATED 260-270 FT (79.2-82.3 M), CONCRETE SEAL 308-355 FT (93.9-108.2 M), LSD 4,874.35 FT (1,485.702 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 0.98 FT (0.299 M) ABOVE LSD (SINCE AUG. 28, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 88.15 FEET BELOW LAND SURFACE DATUM SEP 28, 1976.

LOWEST WATER LEVEL 92.02 FEET BELOW LAND SURFACE DATUM SEP 09, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 07, 1980	0		JUL 23, 1980	91.64	S	AUG 11, 1980	91.64	S	SEP 09, 1980	92.02	S

WELL 06N 38E 30BAD3 SITE NUMBER 434924112013802

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 543.5 FT (165.7 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-450 FT (0-137.2 M), PERFORATED 442.5-447.5 FT (134.9-136.4 M), GRAVEL PACKED 430-543.5 FT (131.1-165.7 M), CONCRETESEAL 392-430 FT (119.5-131.1 M), 543.5-575 FT (165.7-175.3 M). LSD 4,874.35 FT (1,485.702 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 2 TOP OF 3/4-IN (1.9-CM) PIPE, 0.76 FT (0.232 M) ABOVE LSD (SINCE JULY 7, 1978).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 82.82 FEET BELOW LAND SURFACE DATUM MAY 19, 1969.

LOWEST WATER LEVEL 88.12 FEET BELOW LAND SURFACE DATUM AUG 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 07, 1980	87.94	S	JUL 23, 1980	87.84	S	AUG 11, 1980	88.12	S	SEP 09, 1980	87.84	S

WELL 06N 38E 30BAD4 SITE NUMBER 434924112013803

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, REPORTED DEPTH 638 FT (194.5 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-595 FT (0-181.4 M), PERFORATED 587.5-592.5 FT (179.1-180.6 M), GRAVEL PACKED 575-600 FT (175.3-182.9 M), SAND 600-638 FT (182.9-194.5 M), CONCRETE SEAL 543.5-575 FT (165.7-175.3 M). LSD 4,874.35 FT (1,485.702 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1968. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 1.44 FT (0.439 M) ABOVE LSD (SINCE AUG. 28, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 65.71 FEET BELOW LAND SURFACE DATUM AUG 28, 1967.

LOWEST WATER LEVEL 90.69 FEET BELOW LAND SURFACE DATUM OCT 08, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 07, 1980	89.90	S	JUL 23, 1980	90.06	S	AUG 11, 1980	90.05	S	SEP 09, 1980	90.09	S

WELL 05N 32E 36ADD1 SITE NUMBER 434307112382601

FORMERLY SITE ID NO. 434311112383001. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 6 TO 5 IN (15 TO 13 CM). DEPTH 405.5 FT (123.6 M). 6-IN (15-CM) CASING 0-357 FT (0-108.8 M). 5-IN (13-CM) CASING 351-405 FT (107.0-123.4 M). PERFORATED 360-400 FT (109.7-121.9 M). OPEN BOTTOM. LSD 4,839.44 FT (1,475.061 M) NGVD OF 1929. RECORDER INSTALLED NOV. 15, 1952. RECORDER REMOVED OCT. 14, 1954. RECORDER INSTALLED MAY 10, 1962. MPNO. 2 TOP OF 6 1/4-IN (16-CM) CASING NORTHEAST SIDE. 1.00 FT (0.305 M) ABOVE LSD (SINCE JAN. 26, 1961).

RECORDS AVAILABLE 1952 - 1954, 1955 - 1961, 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 324.56 FEET BELOW LAND SURFACE DATUM MAR 02, 1974.

LOWEST WATER LEVEL 333.49 FEET BELOW LAND SURFACE DATUM SEP 30, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03, 1979	333.44	DEC 31, 1979	331.56		APR 03, 1980	330.50	JUL 05, 1980	331.51
05	333.35	JAN 05 1980	331.10		08	330.77	10	331.66
10	333.32	10	330.25		10	330.39	15	331.84
15	332.94	15	331.20		15	330.48	16	331.91
16	333.27	20	331.54		20	330.27	20	331.83
20	332.48	23	331.47		21	330.15	25	332.05
25	332.78	25	330.70		25	330.52	31	332.34
31	332.81	31	331.27		30	330.40	AUG 05	332.16
NOV 05	332.93	FEB 05	331.14		MAY 05	330.70	10	332.54
10	332.61	10	330.83		10	330.26	15	332.51
15	332.88	15	330.54		15	330.52	20	332.91
18	332.18	22	330.61		20	330.86	25	332.96
20	332.64	25	330.97		25	330.43	31	333.02
25	332.22	29	330.68		31	330.44	SEP 05	333.35
30	332.53	MAR 01	330.75		JUN 05	331.00	10	333.25
DEC 05	332.17	08	330.57		10	331.01	15	333.28
10	331.56	13	330.31	S	15	331.38	20	333.21
15	331.87	15	330.09		20	331.30	25	333.46
20	331.64	20	330.51		25	331.28	30	333.49
25	331.58	28	330.59		30	331.39		

WELL 05N 33E 13BDC1 SITE NUMBER 434604112315701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP. DIAM 8 IN (20 CM). DEPTH 359.4 FT (109.5 M). CASED TO 360 FT (109.7 M). PERFORATED 276-290 FT (84.1-88.4 M). 300-317 FT (91.4-96.6 M). LSD 4,794.58 FT (1,458.950 M) NGVD OF 1929. MAY 1953 WELL WAS DEEPENED TO A DEPTH OF 405 FT (123.4 M). DEC. 5, 1969, WELL WAS PLUGGED BACK WITH CONCRETE SEAL TO 326.0 FT (99.4 M). MP NO. 3 TOP OF 8-IN (20-CM) THREADED CASING, 1.80 FT (0.549 M) ABOVE LSD (SINCE MAY 14, 1953).

RECORDS AVAILABLE 1953, 1954 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 260.82 FEET BELOW LAND SURFACE DATUM FEB 19, 1974.

LOWEST WATER LEVEL 270.96 FEET BELOW LAND SURFACE DATUM SEP 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 23, 1979	268.36	S	FEB 25, 1980	266.44	S	MAY 24, 1980	267.43	S	SEP 24, 1980	270.96	S
DEC 18	267.50	S	MAR 13	266.23	S	JUN 21	268.37	S			
JAN 23, 1980	266.75	S	APR 18	266.79	S	JUL 19	269.73	S			

WELL 05N 33E 13BDC2 SITE NUMBER 434604112315702

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 493 FT (150.3 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-400.0 FT (0-121.9 M), PERFORATED 392.5-397.5 FT (119.6-121.2 M), GRAVEL PACKED 370-493 FT (112.8-150.3 M), CONCRETE SEAL 326-353 FT (99.4-107.6 M), 493-540 FT (150.3-164.6 M). LSD 4,794.58 FT (1,458.950 M) NGVD OF 1929. MP NO. 1 TOP OF 8-IN (20-CM) CASING, 1.80 FT (0.549 M) ABOVE LSD (SINCE DEC. 5, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 258.77 FEET BELOW LAND SURFACE DATUM FEB 19, 1974.

LOWEST WATER LEVEL 269.25 FEET BELOW LAND SURFACE DATUM AUG 25, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1979	267.90	S	JAN 23, 1980	264.61	S	APR 18, 1980	264.74	S	JUL 19, 1980	267.83	S
NOV 23	266.18	S	FEB 25	264.36	S	MAY 24	265.38	S	SEP 24	268.91	S
DEC 18	265.36	S	MAR 13	264.17	S	JUN 21	266.38	S			

WELL 05N 33E 13BDC3 SITE NUMBER 434604112315703

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 1,006.5 FT (306.8 M), 1-IN (2.5-CM) PIEZOMETER TUBE 0-725.0 FT (0-221.0 M), PERFORATED 717.5-722.5 FT (218.7-220.2 M), GRAVEL PACKED 750-1,006.5 FT (228.6-306.8 M), CONCRETE SEAL493-540 FT (150.3-164.6 M). LSD 4,794.58 FT (1,458.950 M) NGVD OF 1929. MP NO. 1 TOP OF 8-IN (20-CM) CASING, 1.80 FT (0.549 M) ABOVE LSD (SINCE DEC. 5, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 250.92 FEET BELOW LAND SURFACE DATUM FEB 19, 1974.

LOWEST WATER LEVEL 259.12 FEET BELOW LAND SURFACE DATUM AUG 25, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 13, 1979	258.35	S	JAN 23, 1980	255.80	S	APR 18, 1980	255.65	S	JUL 19, 1980	257.82	S
NOV 23	257.07	S	FEB 25	255.59	S	MAY 24	256.01	S	AUG 24	259.04	S
DEC 18	256.19	S	MAR 13	255.33	S	JUN 21	256.93	S			

WELL 05N 34E 09BDA1 SITE NUMBER 434657112282201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 320 FT (97.5 M), CASED TO 320 FT (97.5 M), PERFORATED 285-315 FT (86.9-96.0 M). LSD 4,791.28 FT (1,460.382 M) NGVD OF 1929. DEC. 9, 1952, WELL WAS DEEPENED TO A DEPTH OF 553 FT (168.6 M), DIAM 4 IN (10 CM), OPEN HOLE 320-553 FT (97.5-168.6 M). AUG. 11, 1961, WELL HAD FILLED IN TO A DEPTH OF 436 FT (132.9 M), JAN. 12, 1962, TO 434 FT(132.3 M). WATER LEVELS AFFECTED BY BAROMETRIC PRESSURE. RECORDER INSTALLED MAY 13, 1950. RECORDER REMOVED OCT. 18, 1952. RECORDER INSTALLED APR. 8, 1953. RECORDER REMOVED MAY 11, 1961. RECORDER INSTALLED APR. 22, 1965. RECORDER REMOVED OCT. 30, 1965. RECORDER INSTALLED JAN. 12, 1966. RECORDER REMOVED DEC. 20, 1966. RECORDER INSTALLED MAY 30, 1967. RECORDER REMOVED NOV. 27, 1978.MP NO. 1 PAINTED X ON TOP OF 6-IN (15-CM) CASING NORTHWEST SIDE, 1.76 FT (0.536 M) ABOVE LSD (SINCE APR. 26, 1950).

RECORDS AVAILABLE 1950 - 1961, 1962 - 1964, 1966 TO CURRENT YEAR.

HIGHEST WATER LEVEL 252.00 FEET BELOW LAND SURFACE DATUM FEB 11, 1973.

LOWEST WATER LEVEL 263.62 FEET BELOW LAND SURFACE DATUM AUG 12, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 26, 1979	259.37	S	FEB 23, 1980	257.73	S	MAY 25, 1980	257.22	S	AUG 12, 1980	263.62	S
DEC 18	258.81	S	MAR 13	257.69	S	JUN 21	260.59	S	SEP 24	262.82	S
JAN 23, 1980	258.08	S	APR 18	258.41	S	JUL 19	262.34	S			

WELL 05N 34E 29DAA1 SITE NUMBER 434407112285101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 TO 5 IN (15 TO 13 CM), DEPTH 425.5 FT (129.7 M), 6-IN (15-CM) CASING 0-328 FT (0-100.0 M), 5-IN (13-CM) CASING 328-398 FT (100.0-121.3 M), PERFORATED 363-398 FT (110.6-121.3 M). LSD 4,877.52 FT (1,486.668 M) NGVD OF 1929. MP NO. 1 TOP OF 6 1/4-IN (16-CM) THREADED CASING, 2.30 FT (0.701 M) ABOVE LSD (SINCE MAY 14, 1953).

RECORDS AVAILABLE 1953, 1954 - 1963, 1964 TO CURRENT YEAR.

HIGHEST WATER LEVEL 346.98 FEET BELOW LAND SURFACE DATUM JAN 14, 1954.

LOWEST WATER LEVEL 355.10 FEET BELOW LAND SURFACE DATUM JUL 17, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 13, 1980	350.93	S	JUL 19, 1980	355.00	S

WELL 05N 36E 02BDA1 SITE NUMBER 434748112113601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 16 IN (41 CM), REPORTED DEPTH 405 FT (123.4 M), CASED TO 18 FT (5.5 M). LSD 4,763.57 FT (1,451.936 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 16-IN (41-CM) CASING COVER, 1.00 FT (0.305 M) ABOVE LSD (SINCE AUG. 30, 1968).

RECORDS AVAILABLE 1968, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 41.32 FEET BELOW LAND SURFACE DATUM JAN 23, 1974.

LOWEST WATER LEVEL 49.34 FEET BELOW LAND SURFACE DATUM SEP 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	48.83	S	FEB 14, 1980	48.30	S	JUN 09, 1980	48.63	S	AUG 08, 1980	49.10	S
DEC 27	48.70	S	APR 17	48.83	S	JUL 23	48.32	S	SEP 11	49.34	S

WELL 05N 36E 02BDA2 SITE NUMBER 434748112113602

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 12 IN (30 CM), REPORTED DEPTH 923 FT (281.3 M), CASED TO 838 FT (255.4 M). LSD 4,763.57 FT (1,451.936 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF TEE, 1.56 FT (0.475 M) ABOVE LSD (SINCE JUNE 19, 1978).

RECORDS AVAILABLE 1968, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.40 FEET ABOVE LAND SURFACE DATUM OCT 24, 1972.

LOWEST WATER LEVEL 2.74 FEET BELOW LAND SURFACE DATUM AUG 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	1.20	S	FEB 14, 1980	0.88	S	JUN 09, 1980	1.20	S	AUG 08, 1980	2.74	S
DEC 27	0.98	S	APR 17	1.63	S	JUL 23	2.23	S	SEP 11	2.34	S

WELL 05N 36E 02BDA3 SITE NUMBER 434748112113603

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DIAM 8 IN (20 CM), REPORTED DEPTH 995 FT (303.3 M), CASED TO 985 FT (300.2 M). LSD 4,763.57 FT (1,451.936 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 3-IN (8-CM) PIPE COUPLER NORTHEAST SIDE, 3.76 F 0 (1.146 M) ABOVE LSD (SINCE FEB. 14, 1980).

RECORDS AVAILABLE 1968, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 3.73 FEET ABOVE LAND SURFACE DATUM APR 17, 1980.

LOWEST WATER LEVEL 16.14 FEET BELOW LAND SURFACE DATUM AUG 30, 1968.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 06, 1979	3.25	S	FEB 14, 1980	3.23	S	JUN 09, 1980	3.42	S	AUG 08, 1980	3.69	S
DEC 27	3.18	S	APR 17	3.73	S	JUL 23	3.61	S	SEP 11	3.72	S

WELL 05N 36E 21DAC1 SITE NUMBER 434447112133401

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 299.5 FT (91.3 M), CASED TO 103 FT (31.4 M). LSD 4,800.94 FT (1,463.326 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED NOV. 23, 1976. RECORDER MAINTAINED, AND ITS RECORD FURNISHED BY US BUREAU OF RECLAMATION.PERIODIC MEASUREMENTS MADE BY US GEOL SURVEY. MP NO. 1 TOP OF CASING, 1.00 FT (0.305 M) ABOVE LSD (SINCE AUG. 24, 1960).

RECORDS AVAILABLE 1960 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 252.25 FEET BELOW LAND SURFACE DATUM DEC 20, 1974.

LOWEST WATER LEVEL 264.40 FEET BELOW LAND SURFACE DATUM AUG 10, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1979	261.54	OCT 31, 1979	259.79	NOV 25, 1979	260.75		MAR 19, 1980	258.30	S
10	261.26	NOV 05	260.05	30	260.58		APR 15	258.85	S
15	260.80	10	260.43	DEC 05	260.40		JUN 28	259.57	S
20	260.25	15	260.50	JAN 09, 1980	259.30	S	AUG 08	260.88	S
25	260.12	20	260.83	14	259.13		SEP 08		O

WELL 04N 35E 14AAA1 SITE NUMBER 434102112180701

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 1,000.0 FT (304.8 M), CASED TO 430 FT (131.1 M). LSD 4,939.32 FT (1,505.504 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1958. RECORDER INSTALLED NOV. 5, 1969. RECORDER MAINTAINED, AND ITS RECORD FURNISHED BY US BUREAU OF RECLAMATION. PERIODIC MEASUREMENTS MADE BY US GEOL SURVEY. RECORDER REMOVED MAR. 17, 1976. MP NO. 1 TOP OF 6-IN (15-CM) CASING EAST SIDE, 0.60 FT (0.183 M) ABOVE LSD (SINCE NOV. 5, 1969).

RECORDS AVAILABLE 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 402.48 FEET BELOW LAND SURFACE DATUM JAN 05, 1974.

LOWEST WATER LEVEL 416.06 FEET BELOW LAND SURFACE DATUM AUG 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 21, 1980		O	AUG 08, 1980	416.06	S	SEP 08, 1980	414.37	S

WELL 04N 38E 12BBB1 SITE NUMBER 434153111563201

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 10-8-6 IN (25-20-15 CM), DEPTH 420.0 FT (128.0 M), 10-IN (25-CM) CASING 0-291.8 FT(88.9 M), 8-IN (20-CM) CASING 280-381.6 FT (85.3-116.3 M), 6-IN (15-CM) CASING 364-510 FT (110.9-155.4 M), PERFORATED 190-200 FT (57.9-61.0 M), 225-235 FT (68.6-71.6 M), 265-275 FT (80.8-83.8 M), CONCRETF SEAL 420-450 FT (128.0-137.2 M). LSD 4,829.55 FT (1,472.047 M) NGVD OF 1929. MP NO. 3 TOP OF 1-IN (2.5-CM) PIPE SOUTH SIDE, 1.10 FT (0.335 M) ABOVE LSD (SINCE AUG. 3, 1978).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 2.30 FEET BELOW LAND SURFACE DATUM JUL 26, 1976.

LOWEST WATER LEVEL 34.61 FEET BELOW LAND SURFACE DATUM OCT 12, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	7.10	S	MAR 13, 1980	22.60	S	JUN 29, 1980	8.61	S	AUG 12, 1980	2.64	S
JAN 19, 1980	18.17	S	MAY 30	14.63	S	JUL 21	3.05	S	SEP 08	3.46	S

WELL 04N 38E 12BBB2 SITE NUMBER 434153111563202

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 10-8-6 IN (25-20-15 CM), DEPTH 528.0 FT (160.9 M), 10-IN (25-CM) CASING 0-291.8 FT(0-88.9 M), 8-IN (20-CM) CASING 280-381.6 FT (85.3-116.3 M), 6-IN (15-CM) CASING 364-510 FT (110.9-155.4 M), 10-IN (25-CM) CASING PERFORATED 190-200 FT (57.9-61.0 M), 225-235 FT (68.6-71.6 M), 265-275 FT (80.8-83.8 M), 6-IN (15-CM) CASING PERFORATED 475-490 FT (144.8-149.4 M), 1-IN (2.5-CM) PIEZOMETER TUBE 0-480.0 FT (0-146.3 M), PERFORATED 472.5-477.5 FT (144.0-145.5 M), GRAVEL PACKED 450-528 FT (137.2-160.9 M), CONCRETE SEAL 420-450 FT (128.0-137.2 M), 528-538 FT (160.9-164.0 M). LSD 4,829.55 FT (1,472.046 M) NGVD OF 1929. MP NO. 1 TOP OF 1-IN (2.5-CM) PIPE SOUTH SIDE, 1.25 FT (0.381 M) ABOVE LSD (SINCE JAN. 19, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 12.11 FEET BELOW LAND SURFACE DATUM DEC 23, 1978.

LOWEST WATER LEVEL 48.04 FEET BELOW LAND SURFACE DATUM APR 11, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	32.73	S	MAR 13, 1980	45.35	S	JUN 29, 1980	39.95	S	AUG 12, 1980	31.83	S
JAN 19, 1980	40.82	S	MAY 30	44.00	S	JUL 28	34.78	S	SEP 08	30.99	S

WELL 04N 38E 12BBB3 SITE NUMBER 434153111563203

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 705.0 FT (214.9 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-550.0 FT (0-167.6 M), PERFORATED 542.5-547.5 FT (165.4-166.9 M), GRAVEL PACKED 538-705 FT (164.0-214.9 M), CONCRETE SEAL 528-538 FT (160.9-164.0 M), 705-726 FT (214.9-221.3 M). LSD 4,829.55 FT (1,472.046 M) NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE SOUTH SIDE, 1.05 FT (0.320 M) ABOVE LSD (SINCE JAN. 19, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 27.03 FEET BELOW LAND SURFACE DATUM OCT 01, 1975.

LOWEST WATER LEVEL 51.02 FEET BELOW LAND SURFACE DATUM APR 11, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	32.44	S	MAR 13, 1980	44.92	S	JUN 29, 1980	39.56	S	AUG 12, 1980	31.55	S
JAN 19, 1980	40.44	S	MAY 30	43.58	S	JUL 21	34.47	S	SEP 08	30.72	S

WELL 04N 38E 12BBB4 SITE NUMBER 434153111563204

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 842.0 FT (256.6 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-760.0 FT (0-231.6 M), PERFORATED 752.5-757.5 FT (229.4-230.9 M), GRAVEL PACKED 726-842 FT (221.3-256.6 M), CONCRETE SEAL 705-726 FT (214.9-221.3 M), 842-850 FT (256.6-259.1 M). LSD 4,829.55 FT (1,472.046 M) NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE SOUTH SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE JAN. 19, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 27.38 FEET BELOW LAND SURFACE DATUM SEP 10, 1974.

LOWEST WATER LEVEL 50.24 FEET BELOW LAND SURFACE DATUM MAY 12, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	35.86	S	MAR 13, 1980	48.25	S	JUN 29, 1980	42.67	S	AUG 12, 1980	34.39	S
JAN 19, 1980	43.84	S	MAY 30	46.78	S	JUL 21	37.45	S	SEP 08	33.49	S

WELL 04N 38E 12BBB5 SITE NUMBER 434153111563205

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 1,026.0 FT (312.7 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-918.0 FT (0-279.8 M), PERFORATED 910.5-915.5 FT (277.5-279.0 M) GRAVEL PACKED 850-1,026.0 FT (259.1-312.7 M), CONCRETE SEAL 842-850 FT (256.6-259.1 M). LSD 4,829.55 FT (1,472.046 M) NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE SOUTH SIDE, 0.81 FT (0.247 M) ABOVE LSD (SINCE JAN. 19, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 79.14 FEET BELOW LAND SURFACE DATUM SEP 10, 1974.

LOWEST WATER LEVEL 110.77 FEET BELOW LAND SURFACE DATUM MAY 25, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	85.70	S	MAR 13, 1980	104.13	S	JUN 29, 1980	99.92	S	AUG 12, 1980	86.06	S
JAN 19, 1980	97.28	S	MAY 30	105.19	S	JUL 21	92.10	S	SEP 08	83.89	S

WELL 04N 39E 16DAD1 SITE NUMBER 434028111515001

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUMOF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 77.6 FT (23.7 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,885 FT (1,489 M) NGVD OF 1929. MEASUREMENTS PRIOR TO SEPT. 19, 1973, MADE BY UNIVERSITY OF IDAHO, WATER RESEARCH INSTITUTE. MP NO. 1 TOP OF 6-IN (15-CM) CASING, 5.80 FT (1.768 M) BELOW LSD (SINCE SEPT. 19, 1973).

RECORDS AVAILABLE 1970 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.19 FEET BELOW LAND SURFACE DATUM SEP 16, 1975.

LOWEST WATER LEVEL 64.00 FEET BELOW LAND SURFACE DATUM APR 17, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	25.51	S	MAR 20, 1980	58.81	S	JUL 22, 1980	16.83	S	SEP 08, 1980	13.71	S
JAN 19, 1980	49.33	S	MAY 27	47.43	S	AUG 12	12.18	S			

WELL 04N 39E 26DAA1 SITE NUMBER 433849111492601

DRILLED DOMESTIC WATER-TABLE WELL IN ALLUVIUMOF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 107.8 FT (32.9 M), CASED TO 108 FT (32.9 M). LSD ABOUT4,922 FT (1,500 M) NGVD OF 1929. MEASUREMENTS PRIOR TO SEPT. 16, 1975, MADE BY WATER RESOURCES RESEARCH INSTITUTE. MP NO. 2 TOP OF 1 1/2-IN (3.8-CM) PIPE, 1.02 FT (0.311 M) ABOVE LSD (SINCE SEPT. 16, 1975).

RECORDS AVAILABLE 1975 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.28 FEET BELOW LAND SURFACE DATUM AUG 14, 1978.

LOWEST WATER LEVEL 85.27 FEET BELOW LAND SURFACE DATUM APR 10, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	34.35	S	MAR 20, 1980	77.56	S	JUL 22, 1980	28.22	S	SEP 08, 1980	21.89	S
JAN 19, 1980	62.83	S	MAY 27	72.94	S	AUG 12	21.82	S			

WELL 07S 17E 06ACA1 SITE NUMBER 425053114302201

FORMERLY SITE ID NO. 425100114302701. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 345.1 FT (105.2 M), CASED TO 345 FT (105.2 M), PERFORATED 322-345 FT (98.2-105.2 M), OPEN BOTTOM. LSD 3,879.61 FT (1,182.505 M) NGVD OF 1929. RECORDER INSTALLED DEC. 10, 1963. RECORDER REMOVED AUG. 17, 1971. MP NO. 2 TOP OF 6-IN (15-CM) CASING NORTHEAST SIDE 1.10 FT (0.335 M) ABOVE LSD (SINCE DEC. 10, 1963).

RECORDS AVAILABLE 1963 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 307.77 FEET BELOW LAND SURFACE DATUM NOV 27, 1972.

LOWEST WATER LEVEL 319.42 FEET BELOW LAND SURFACE DATUM MAR 11, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 11, 1980	319.42	S	AUG 09, 1980	317.12	S	SEP 10, 1980	315.65	S

WELL 08S 19E 05DAB1 SITE NUMBER 424529114150901

FORMERLY SITE ID NO. 424524114150901. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 21 TO 16 IN (53 TO 41 CM), DEPTH 329.1 FT (100.3 M), 21-IN (53-CM) CASING 0-4 FT (0-1.2 M), 16-IN (41-CM) CASING 197-277 FT (60.0-84.4 M), CONCRETE SEAL AT 272 FT (82.9 M). LSD 4,075.54 FT (1,242.225 M) NGVD OF 1929. RECORDER INSTALLED APR. 6, 1960. RECORDER REMOVED AUG. 13, 1971. MP NO. 2 TOP OF 2-IN (5.1-CM) PIPE COUPLING NORTHEAST SIDE, 1.17 FT (0.357 M) ABOVE LSD (SINCE AUG. 13, 1971).

RECORDS AVAILABLE 1957 - 1959, 1960 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 257.71 FEET BELOW LAND SURFACE DATUM OCT 07, 1957.

LOWEST WATER LEVEL 277.23 FEET BELOW LAND SURFACE DATUM MAR 19, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 19, 1980	277.23	S	AUG 11, 1980	274.69	V	SEP 15, 1980	274.39	V

WELL 09S 18E 35CCA1 SITE NUMBER 423538114191901

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 6 IN (15 CM), DEPTH 176.0 FT (53.6 M), CASED TO 44 FT (13.4 M). LSD 3,818.26 FT (1,163.806 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF PUMP COLUMN, 12.04 FT (3.670 M) BELOW LSD (SINCE MAR. 8, 1977).

RECORDS AVAILABLE 1949 TO CURRENT YEAR.

HIGHEST WATER LEVEL 127.34 FEET BELOW LAND SURFACE DATUM OCT 22, 1952.

LOWEST WATER LEVEL 145.28 FEET BELOW LAND SURFACE DATUM MAR 14, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 18, 1980	141.57	S	AUG 09, 1980	140.83	S	SEP 15, 1980	138.82	S

WELL 09S 19E 25BBC1 SITE NUMBER 423659114111601

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 16 IN (41 CM), DEPTH 207.6 FT (63.3 M), CASED TO 134 FT (40.8 M), PERFORATED 114-134 FT (34.7-40.8 M). LSD 3,932.37 FT (1,198.586 M) NGVD OF 1929. RECORDER INSTALLED APR. 12, 1960. RECORDER REMOVED JULY 21, 1960. MP NO. 1 TOP OF 16-IN (41-CM) CASING SOUTH SIDE, 2.00 FT (0.610 M) ABOVE LSD (SINCE JULY 21, 1960).

RECORDS AVAILABLE 1957 - 1959, 1960, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 101.06 FEET BELOW LAND SURFACE DATUM OCT 01, 1957.

LOWEST WATER LEVEL 125.85 FEET BELOW LAND SURFACE DATUM MAR 18, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 24, 1979	118.29	S	JAN 19, 1980	123.35	S	JUL 28, 1980	121.60	S	SEP 15, 1980	120.07	S
NOV 16	119.61	S	MAR 18	125.85	S	AUG 11	121.02	S			
DEC 18	121.70	S	MAY 20	125.69	S	18	120.70	S			

WELL 10S 20E 27BCC1 SITE NUMBER 423134114062601

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN (51 CM), DEPTH 735.0 FT (224.0 M), CASED TO 20 FT (6.1 M). LSD 4,182.13 FT (1,274.713 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED OCT. 29, 1952. RECORDER REMOVED JULY 30, 1953. MP NO. 2 TOP OF 2-IN (5.1-CM) PIPE SOUTH SIDE, SET IN CONCRETE WELL COVER, 1.30 FT (0.396 M) ABOVE LSD (SINCE APR. 1, 1959).

RECORDS AVAILABLE 1952 - 1953, 1954, 1955 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 314.90 FEET BELOW LAND SURFACE DATUM OCT 29, 1952.

LOWEST WATER LEVEL 348.49 FEET BELOW LAND SURFACE DATUM JUL 22, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
AUG 11, 1980	343.84	S	SEP 15, 1980	341.42	S

WELL 03S 20E 02DDA1 SITE NUMBER 431116114020901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 4 IN (10 CM), DEPTH 571.5 FT (174.2 M), CASED TO 571.5 FT (174.2 M), PERFORATED 536-566 FT (163.4-172.5 M). AUG. 4, 1972, WELL HAD FILLED IN TO A DEPTH OF 569.3 FT (173.5 M). LSD ABOUT 4,604 FT (1,403 M) NGVD OF 1929. MP NO. 2 TOP OF 1-IN (2.5-CM) PIPE IN CASING CAP NORTHEAST SIDE, 0.86 FT (0.262 M) ABOVE LSD (SINCE AUG. 4, 1972).

RECORDS AVAILABLE 1972 - 1973, 1974 TO CURRENT YEAR.

HIGHEST WATER LEVEL 519.58 FEET BELOW LAND SURFACE DATUM NOV 06, 1974.

LOWEST WATER LEVEL 546.17 FEET BELOW LAND SURFACE DATUM MAR 30, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 03, 1979	541.40	S	JAN 16, 1980	542.25	S	MAY 18, 1980	541.53	S	AUG 04, 1980	538.14	S
NOV 19	540.60	V	MAR 17	543.13	S	JUL 10	538.22	S	SEP 08	537.93	S

WELL 05S 17E 26ACA1 SITE NUMBER 425746114240101

FORMERLY SITE ID NO. 425742114240401. DRILLED OBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN (41 CM). DEPTH 253.5 FT (77.3 M), CASED TO 201 FT (61.3 M). LSD 3,972.64 FT (1,210.861 M) NGVD OF 1929. RECORDER INSTALLED JULY 24, 1959. RECORDER CHANGED TO DIGITAL JULY 24 1975. MP NO. 1 TOP OF 16-IN (41-CM) CASING NORTH SIDE, 1.30 FT (0.396 M) ABOVE LSD (SINCE AUG. 5, 1957).

RECORDS AVAILABLE 1957 - 1958, 1959 TO CURRENT YEAR.

HIGHEST WATER LEVEL 175.81 FEET BELOW LAND SURFACE DATUM SEP 28, 1975.

LOWEST WATER LEVEL 209.07 FEET BELOW LAND SURFACE DATUM MAY 05, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	195.40	JAN 05, 1980	202.27	APR 15, 1980	206.53	JUL 20, 1980	198.77
10	195.61	10	202.57	20	206.56	25	198.30
15	195.72	15	203.09	25	206.82	31	197.89
20	195.63	20	203.44	30	206.86	AUG 05	197.33
25	195.86	31	204.12	MAY 03	206.94	10	197.18
31	196.49	FEB 05	204.50	05	206.92	15	196.76
NOV 05	197.28	10	204.85	10	206.72	20	196.64
10	197.63	15	204.95	15	206.60	25	196.30
14	198.19	20	205.32	20	206.44	31	195.96
15	198.31	25	205.76	25	206.00	SEP 05	195.85
17	198.05	29	205.70	31	205.38	07	195.57
20	198.78	MAR 05	205.85	JUN 05	204.65	10	195.57
25	199.01	10	206.18	10	203.94	15	195.45
30	199.64	11	206.21	15	203.56	20	195.18
DEC 05	199.98	15	205.08	20	202.86	25	195.21
10	200.20	20	205.28	25	202.19	27	194.95
15	200.73	25	205.46	30	201.40	30	195.19
20	201.13	31	205.72	JUL 05	200.60		
25	201.62	APR 05	205.92	10	199.90		
31	202.06	10	206.24	15	199.32		

WELL 05S 23E 17CAA1 SITE NUMBER 425907113444001

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 332.7 FT (101.4 M), CASED TO 333 FT (101.5 M), PERFORATED 311-331 FT (94.8-101.5 M), STEEL PLATE BOTTOM SEAL. LSD 4,374.87 FT (1,333.460 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED AUG. 21, 1957, MP NO. 1 TOP OF 6-IN (15-CM) CASING NORTHEAST SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE JULY 2, 1957).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.

HIGHEST WATER LEVEL 303.04 FEET BELOW LAND SURFACE DATUM JUL 02, 1957.

LOWEST WATER LEVEL 315.27 FEET BELOW LAND SURFACE DATUM SEP 30, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	
OCT 05, 1979	314.00	
10	314.01	
15	313.99	
16	314.01	
20	313.89	
25	313.91	
31	313.89	
NOV 05	313.87	
10	313.78	
15	313.79	
17	313.68	
20	314.75	
25	314.65	
30	314.69	
DEC 05	314.60	
10	314.52	
15	314.47	
20	314.41	
25	314.36	
DEC 31, 1979	314.33	
JAN 05 1980	314.22	
25	313.09	
31	313.02	
FEB 05	313.08	
10	313.03	
15	313.93	
20	312.77	
25	312.89	
29	312.90	
MAR 05	312.70	
10	312.73	
15	312.68	
20	312.63	
25	312.61	
29	312.52	
31	312.60	
APR 05	312.59	
10	312.64	
APR 15, 1980	312.71	
20	312.59	
25	312.62	
30	312.64	
MAY 05	312.70	
10	312.66	
15	312.76	
20	312.86	
25	312.83	
31	312.96	
JUN 05	313.03	
10	313.13	
15	313.24	
20	313.28	
25	313.37	
30	313.52	
JUL 05	313.67	
10	313.86	
15	314.02	
JUL 20, 1980	314.15	
25	314.32	
31	314.47	
AUG 05	314.52	
10	314.68	
15	314.76	
20	314.85	
25	314.93	
31	314.98	
SEP 05	315.06	
10	315.11	
14	315.15	S
15	315.15	
20	315.18	
25	315.25	
30	315.27	

WELL 07N 3HE 23DBA1 SITE NUMBER 435506111563101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 16 IN (41 CM), DEPTH 236.0 FT (71.9 M), CASED TO 177 FT (53.9 M). LSD 4,852.35 FT (1,478.996 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 9, 1960. RECORDER CHANGED TO DIGITAL MAR. 12, 1973. MP NO. 1 TOP OF 16-IN (41-CM) CASING NORTHEAST SIDE, 1.95 FT (0.594 M) ABOVE LSD (SINCE JULY 23, 1965).

RECORDS AVAILABLE 1958 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 37.47 FEET BELOW LAND SURFACE DATUM OCT 20, 1974.

LOWEST WATER LEVEL 45.74 FEET BELOW LAND SURFACE DATUM APR 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	41.71	JAN 05, 1980	43.48	APR 05, 1980	45.46	JUL 05, 1980	43.05
10	41.72	10	43.54	10	45.58	10	43.00
15	41.69	15	43.87	15	45.65	15	42.88
19	41.40	20	44.11	16	45.74	20	42.77
20	41.56	25	43.98	20	45.57	25	42.70
25	41.64	31	44.52	25	45.61	31	42.61
31	41.80	FEB 05	44.62	30	45.48	AUG 05	42.41
NOV 05	42.02	08	44.67	MAY 05	45.41	10	42.43
10	42.01	10	44.66	10	45.13	15	42.50
15	42.27	15	44.78	15	44.98	20	42.55
20	42.38	20	44.79	20	44.85	25	42.28
25	42.42	25	45.06	25	44.50	31	42.17
30	42.67	29	45.15	31	44.30	SEP 05	42.19
DEC 05	42.75	MAR 05	45.11	JUN 05	44.03	06	42.05
10	42.68	10	45.24	10	43.81	10	42.05
15	42.95	15	45.33	15	43.74	15	41.99
20	43.11	20	45.44	20	43.50	20	41.91
25	43.27	25	45.43	25	43.35	25	41.96
31	43.50	31	45.46	30	43.21	30	41.93

WELL 07N 3HE 23DBA2 SITE NUMBER 435506111563102

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN (20 CM), REPORTED DEPTH 152 FT (46.3 M), CASED TO 154 FT (46.9 M), PERFORATED 65-140 FT (19.8-42.7 M). AUG. 28, 1958, WELL HAD FILLED WITH SAND THROUGH PERFORATIONS TO A DEPTH OF 84 FT (25.6 M). LSD 4,852.38 FT (1,479.005 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED APR. 9, 1960. RECORDER CHANGED TO DIGITAL MAR. 12, 1975. MP NO. 1 TOP OF CASING COUPLING NORTH SIDE, 0.70 FT (0.213 M) ABOVE LSD (SINCE APR. 9, 1960).

RECORDS AVAILABLE 1958 - 1959, 1960 TO CURRENT YEAR.

HIGHEST WATER LEVEL 20.09 FEET BELOW LAND SURFACE DATUM SEP 11, 1977.

LOWEST WATER LEVEL 42.39 FEET BELOW LAND SURFACE DATUM APR 28, 1975.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	35.90	JAN 25, 1980	37.85	APR 20, 1980	39.65	JUL 20, 1980	37.68
10	35.95	31	38.01	23	39.73	25	37.48
15	35.98	FEB 05	38.14	25	39.69	31	37.25
20	35.93	10	38.27	30	39.69	AUG 05	37.06
25	35.99	15	38.39	MAY 05	39.67	10	36.91
31	36.05	20	38.48	10	39.60	15	36.74
NOV 05	36.15	25	38.62	15	39.52	20	36.61
10	26.07	29	38.73	20	39.43	25	36.48
15	36.34	MAR 05	38.81	25	39.32	31	36.37
20	36.41	10	38.93	JUN 03	39.14 S	SEP 05	36.29
25	36.50	15	39.06	05	39.08	09	36.22
30	36.44	16	39.10	10	38.96	10	36.19
DEC 05	36.54	17	39.10	15	38.84	15	36.13
07	36.58	20	39.16	20	38.68	18	36.06
JAN 08, 1980	37.25	25	39.27	25	38.54	20	36.08
10	37.31	31	39.38	30	38.38	25	36.13
17	37.66 S	APR 05	39.46	JUL 05	38.22	30	36.13
18	37.69	10	39.55	10	38.06		
28	37.74	15	39.62	15	37.87		

WELL 06N 39E 10BBA1 SITE NUMBER 435209111512101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 260.0 FT (79.2 M), CASED TO 168 FT (51.2 M). LSD 4,834.20 FT (1,473.464 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF PIPE COUPLING IN CASING CAP, 1.80 FT (0.549 M) ABOVE LSD (SINCE DEC. 14, 1962).

RECORDS AVAILABLE 1962 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.46 FEET BELOW LAND SURFACE DATUM SEP 18, 1974.

LOWEST WATER LEVEL 23.68 FEET BELOW LAND SURFACE DATUM MAR 14, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 09, 1979	19.44	S	JAN 07, 1980	20.76	S	MAR 14, 1980	23.68	S	SEP 09, 1980	19.82	S
NOV 08	19.76	S	16	22.12	S	JUN 03	22.19	S			
29	20.69	S	FEB 08	22.96	S	JUL 18	20.50	S			
DEC 12	20.90	S	13	22.95	S	AUG 08	20.14	S			

WELL 06N 39E 10BBA2 SITE NUMBER 435209111512102

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 317 FT (96.6 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-316 FT (0-96.3 M),PERFORATED 307.5-312.5 FT (93.7-95.2 M), GRAVEL PACKED 290-317 FT (88.4-96.6 M), CONCRETE SEAL 265-290 FT (80.8-88.4 M), 317-339 FT (96.6-103.3 M). LSD 4,834.20 FT (1,473.464 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 2.32 FT(0.707 M) ABOVE LSD (SINCE JUNE 12, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.45 FEET BELOW LAND SURFACE DATUM SEP 18, 1974.

LOWEST WATER LEVEL 23.80 FEET BELOW LAND SURFACE DATUM MAR 13, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 09, 1979	19.52	S	JAN 07, 1980	21.86	S	MAR 13, 1980	23.80	S	SEP 09, 1980	19.97	S
NOV 08	19.86	S	16	22.22	S	JUN 03	22.37	S			
29	20.75	S	FEB 08	23.08	S	JUL 18	20.63	S			
DEC 12	21.04	S	13	23.04	S	AUG 08	20.25	S			

WELL 06N 39E 10BBA3 SITE NUMBER 435209111512103

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DEPTH 545 (166.1 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-387 FT (0-118.0 M), PERFORATED 376.5-381.5 FT (114.8-116.3 M), GRAVEL PACKED 339-545 FT (103.3-166.1 M), CONCRETE SEAL 317-339 FT (96.6-103.3 M), 545-570 FT (166.1-173.7 M). LSD 4,834.20 FT (1,473.464 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 2.02 FT (0.616 M) ABOVE LSD (SINCE JUNE 12, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 15.38 FEET BELOW LAND SURFACE DATUM SEP 18, 1974.

LOWEST WATER LEVEL 23.74 FEET BELOW LAND SURFACE DATUM MAR 14, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 09, 1979	19.47	S	JAN 07, 1980	21.89	S	MAR 14, 1980	23.74	S	SEP 09, 1980	19.91	S
NOV 08	19.68	S	16	22.19	S	JUN 03	22.29	S			
29	20.70	S	FEB 08	23.01	S	JUL 18	20.58	S			
DEC 12	21.00	S	13	23.01	S	AUG 08	20.21	S			

WELL 06N 39E 10BBA4 SITE NUMBER 435209111512104

DRILLED OBSERVATION ARTESIAN WELL IN SILICIC VOLCANIC ROCKS OF QUATERNARY AGE, DEPTH 636.8 FT (194.1 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-600 FT (0-182.9 M), PERFORATED 592.5-597.5 FT (180.6-182.1 M), GRAVEL PACKED 570-636.5 FT (173.7-194.0 M), CONCRETE SEAL 545-570 FT (166.1-173.7 M). LSD 4,834.20 FT (1,473.464 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 1.74 FT (0.530 M) ABOVE LSD (SINCE JUNE 12, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 10.26 FEET BELOW LAND SURFACE DATUM OCT 11, 1967.

LOWEST WATER LEVEL 21.52 FEET BELOW LAND SURFACE DATUM JUN 03, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 09, 1979	20.05	S	JAN 07, 1980	19.33	S	MAR 14, 1980	20.67	S	SEP 09, 1980	19.80	S
NOV 08	18.76	S	16	19.49	S	JUN 03	21.52	S			
29	18.80	S	FEB 08	19.93	S	JUL 18	20.87	S			
DEC 12	18.94	S	13	20.11	S	AUG 08	20.52	S			

WELL 06N 39E 30ADC1 SITE NUMBER 434915111540501

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 295.0 FT (89.9 M), CASED TO 263 FT (80.2 M). LSD 4,816.92 FT (1,468.197 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP OF 1-IN (2.5-CM) PIPE COUPLING IN CASING CAP, 2.00 FT (0.610 M) ABOVE LSD (SINCE JAN. 14, 1963).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.18 FEET BELOW LAND SURFACE DATUM OCT 10, 1975.

LOWEST WATER LEVEL 7.29 FEET BELOW LAND SURFACE DATUM APR 24, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	3.98	S	FEB 08, 1980	6.44	S	JUN 03, 1980	4.94	S	AUG 08, 1980	3.47	S
JAN 09, 1980	5.54	S	MAR 12	7.05	S	JUL 21	3.52	S	SEP 08	3.40	S

WELL 06N 39E 30ADC2 SITE NUMBER 434915111540502

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 620 FT (189.0 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-445 FT (0-135.6 M), PERFORATED 437.5-442.5 FT (133.4-134.9 M), GRAVEL PACKED 406-620 FT (123.7-189.0 M), CONCRETE SEAL 385-406 FT (117.3-123.7 M), 620-638 FT (189.0-194.5 M). LSD 4,816.92 FT (1,468.197 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 2.20 FT (0.671 M) ABOVE LSD (SINCE JULY 25, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.73 FEET BELOW LAND SURFACE DATUM SEP 20, 1971.

LOWEST WATER LEVEL 9.85 FEET BELOW LAND SURFACE DATUM MAR 12, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	6.36	S	FEB 08, 1980	9.18	S	JUN 03, 1980	8.56	S	AUG 08, 1980	6.55	S
JAN 09, 1980	7.92	S	MAR 12	9.85	S	JUL 21	6.86	S	SEP 08	6.18	S

WELL 06N 39E 30ADC3 SITE NUMBER 434915111540503

DRILLED OBSERVATION ARTESIAN WELL IN SNAKE RIVER GROUP, DEPTH 699.7 FT (213.3 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-685 FT (0-208.8 M), PERFORATED 677.5-682.5 FT (206.5-208.0 M), GRAVEL PACKED 638-699.7 FT (194.5-213.3 M), CONCRETESEAL 620-638 FT (189.0-194.5 M), LSD 4,816.92 FT (1,468.197 M) NGVD OF 1929, PACIFIC NORTHWESTSUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE, 2.03 FT (0.619 M) ABOVELSD (SINCE JULY 25, 1967).

RECORDS AVAILABLE 1967 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 0.92 FEET BELOW LAND SURFACE DATUM JUN 24, 1976.

LOWEST WATER LEVEL 9.12 FEET BELOW LAND SURFACE DATUM MAR 02, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 14, 1979	5.21	S	FEB 08, 1980	7.32	S	JUN 03, 1980	8.82	S	AUG 08, 1980	6.72	S
JAN 09, 1980	6.40	S	MAR 12	8.23	S	JUL 21	7.34	S	SEP 08	6.08	S

WELL 06N 40E 09BBB2 SITE NUMBER 435205111452301

BORED OBSERVATION WATER-TABLE WELL IN ALLUVIUM OF HOLOCENE AGE, DIAM 1 1/4 IN (3.2 CM), REPORTED DEPTH 25 FT (7.6 M), CASED 0-23 FT (0-7.0 M),WELL POINT 23.0-25.0 FT (7.0-7.6 M). LSD 4,886.80 FT (1,489.496 M) NGVD OF 1929. MP NO. 1 TOP OF 11/4-IN (3.2-CM) CASING, 0.70 FT (0.213 M) ABOVE LSD (SINCE JULY 21, 1977).

RECORDS AVAILABLE 1977 TO CURRENT YEAR.

HIGHEST WATER LEVEL 5.66 FEET BELOW LAND SURFACE DATUM AUG 07, 1978.

LOWEST WATER LEVEL 22.53 FEET BELOW LAND SURFACE DATUM APR 18, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 09, 1979	7.93	S	DEC 27, 1979	14.29	S	MAR 18, 1980	20.54	S	AUG 07, 1980	5.78	S
30	8.59	S	JAN 16 1980	16.02	S	19	20.51	S	SEP 09	7.12	S
NOV 08	9.96	S	FEB 13	18.34	S	MAY 28	18.02	S			
DEC 12	12.87	S	14	18.42	S	JUL 18	6.26	S			

WELL 06N 41E 02BDC1 SITE NUMBER 435237111352701

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 18 IN (46 CM), REPORTED DEPTH 350 FT (106.7 M), CASED TO 60 FT (18.3 M). LSD 5,131.80 FT (1,564.173 M) NGVD OF 1929. MP NO. 3 TOP OF 5/8-IN (1.6-CM) HOLE INSIDE PUMPBASE SOUTHWEST SIDE, 1.08 FT (0.329 M) ABOVE LSD (SINCE SEPT. 13, 1977).

RECORDS AVAILABLE 1959, 1967 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 266.17 FEET BELOW LAND SURFACE DATUM SEP 29, 1976.

LOWEST WATER LEVEL 279.48 FEET BELOW LAND SURFACE DATUM SEP 17, 1973.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	269.66	S	MAR 20, 1980	273.44	S

WELL 05N 39E 08DAD1 SITE NUMBER 434634111530401

DRIVEN OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 1 1/4 IN (3.2 CM), DEPTH 27.5 FT (8.4 M), CASED TO 27.5 FT (8.4 M), WELL POINT 25.5-27.5 FT (7.8-8.4 M), LSD 4,830.36 FT (1,472.294 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 1 TOP OF COLLAR, 0.70 FT (0.213 M) ABOVE LSD (SINCE NOV. 8, 1966).

RECORDS AVAILABLE 1966, 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 4.19 FEET BELOW LAND SURFACE DATUM JUN 27, 1978.

LOWEST WATER LEVEL 8.22 FEET BELOW LAND SURFACE DATUM JAN 06, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 01, 1979	5.55	S	OCT 30, 1979	5.70	S	JAN 15, 1980	7.80	S	JUL 21, 1980	4.16	S
09	5.69	S	NOV 08	6.82	S	FEB 13	7.93	S	AUG 05	4.88	S
15	5.69	S	14	7.00	S	14	7.93	S	SEP 08	5.40	S
22	5.78	S	DEC 12	7.51	S	MAR 12	7.66	S			
29	6.32	S	JAN 09, 1980	7.79	S	JUN 03	5.59	S			

WELL 05N 40E 01CCD1 SITE NUMBER 434712111415601

DRILLED UNUSED WATER-TABLE WELL IN BASALT OF QUATERNARY AGE, DIAM 20 IN (51 CM), REPORTED DEPTH 716 FT (218.2 M), CASED TO 104 FT (31.7 M), LSD ABOUT 5,305 FT (1,617 M) NGVD OF 1929. AUG. 24, 1972, WELL HAD FILLED IN TO A DEPTH OF 508.6 FT (155.0 M). MP NO. 2 TOP OF HOLE IN 55-GAL (208-L) DRUM SOUTH SIDE, 1.20 FT (0.366 M) ABOVE LSD (SINCE MAY 1, 1973).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 439.43 FEET BELOW LAND SURFACE DATUM JUN 02, 1980.

LOWEST WATER LEVEL 449.76 FEET BELOW LAND SURFACE DATUM SEP 27, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 12, 1979	441.09	S	FEB 22, 1980	439.60	S	JUN 02, 1980	439.43	S	SEP 09, 1980	441.38	S
JAN 09, 1980	440.45	S	MAR 24	439.47	S	JUL 21	441.91	S			

WELL 04S 24E 06BBC1 SITE NUMBER 430626113391001

FORMERLY SITE ID NO. 430623113390801. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 6 IN (15 CM), DEPTH 445.1 FT (135.7 M), CASED TO 444 FT (135.3 M), PERFORATED 420-444 FT (128.0-135.3 M). LSD 4,493.44 FT (1,369.600 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED AUG. 20, 1957. MP NO. 1 TOP OF 6-IN (15-CM) CASING NORTHEAST SIDE, 1.50 FT (0.457 M) ABOVE LSD (SINCE AUG.1, 1957).

RECORDS AVAILABLE 1957 TO CURRENT YEAR.

HIGHEST WATER LEVEL 410.98 FEET BELOW LAND SURFACE DATUM APR 03, 1958.

LOWEST WATER LEVEL 422.74 FEET BELOW LAND SURFACE DATUM SEP 30, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	421.37	FEB 25, 1980	421.04	MAY 15, 1980	420.68	AUG 05, 1980	422.07
10	421.42	29	420.86	20	420.82	10	422.21
15	421.38	MAR 05	420.63	25	420.72	15	422.23
19	421.20	10	420.68	31	420.83	20	422.36
20	421.24	15	420.60	JUN 05	420.90	25	422.40
25	421.37	20	420.66	10	420.92	31	422.45
31	421.42	25	420.59	15	421.05	SEP 05	422.55
NOV 05	421.45	31	420.58	20	421.04	09	422.59
10	421.37	APR 05	420.56	25	421.09	10	422.58
12	421.48	10	420.62	30	421.20	15	422.59
15	421.46	15	420.66	JUL 05	421.33	20	422.62
[illegible]	421.27	20	420.51	10	421.44	25	422.69
JAN 25, 1980	421.05	25	420.63	15	421.57	30	422.74
FEB 10	421.10	30	420.60	20	421.67		
15	420.97	MAY 05	420.69	25	421.75		
20	420.82	10	420.56	31	421.98		

WELL 05S 25E 22DAD1 SITE NUMBER 425812113271201

FORMERLY SITE ID NO. 425812113271201. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 4 IN (10 CM), DEPTH 581.3 FT (177.2 M), CASED TO 581.3 FT (177.2 M), PERFORATED 525-538 FT (160.0-164.0 M), 555-560 FT (169.2-170.7 M), 575-578 FT (175.3-176.2 M). LSD 4,583.37 FT (1,397.011 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 3 TOP OF 2-IN (5.1-CM) PIPE NIPPLE NORTHEAST SIDE, 2.34 FT (0.713 M) ABOVE LSD (SINCE MAY 4, 1972).

RECORDS AVAILABLE 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 491.46 FEET BELOW LAND SURFACE DATUM APR 27, 1973.

LOWEST WATER LEVEL 502.20 FEET BELOW LAND SURFACE DATUM AUG 07, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 18, 1979	499.26	S	MAY 18, 1980	498.82	S	AUG 07, 1980	502.20	S	SEP 10, 1980	500.51	S
MAR 14, 1980	498.47	S	JUL 28	500.21	S						

WELL 07S 24E 02ADD1 SITE NUMBER 425040113363101

FORMERLY SITE ID NO. 425037113363201. DRILLEDOBSERVATION WATER-TABLE WELL IN SNAKE RIVER GROUP. DIAM 5 IN (13 CM), DEPTH 252.0 FT (76.8 M), CASED TO 252 FT (76.8 M), PERFORATED 222-252 FT (67.7-76.8 M). LSD 4,285.88 FT (1,306.336 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY US BUREAU OF RECLAMATION. RECORDER INSTALLED NOV. 3, 1953. RECORDER REMOVED AUG.9, 1972. MP NO. 2 TOP OF 3/4-IN (1.9-CM) HOLE IN CASING COVER, 0.92 FT (0.280 M) ABOVE LSD (SINCE JULY 23, 1975).

RECORDS AVAILABLE 1953 - 1972, 1973 TO CURRENT YEAR.

HIGHEST WATER LEVEL 200.95 FEET BELOW LAND SURFACE DATUM JAN 17, 1954.

LOWEST WATER LEVEL 221.26 FEET BELOW LAND SURFACE DATUM SEP 27, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
NOV 28, 1979	216.83	S	MAR 19, 1980	215.12	S	AUG 04, 1980	217.90	S	SEP 10, 1980	0

WELL 08S 23E 27BDC1 SITE NUMBER 424201113452701

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN (51 CM), REPORTED DEPTH 260 FT (79.2 M), CASED TO 21 FT (6.4 M). LSD 4,234.52 FT (1,290.682 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER MEASUREMENTS FROM JUNE 10, 1949, THROUGH DEC. 20, 1949, MADE BY US BUREAU OF RECLAMATION. RECORDER INSTALLED MAY 20, 1949. RECORDER REMOVED DEC. 20, 1949. MP NO. 3 LOWER LIP OF 1-IN (2.5-CM) PIPE NORTH SIDE OF PUMP, 0.54 FT (0.165 M) ABOVE LSD (SINCE MAR. 27, 1963).

RECORDS AVAILABLE 1948, 1949, 1950 - 1954, 1955 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 176.75 FEET BELOW LAND SURFACE DATUM DEC 01, 1953.

LOWEST WATER LEVEL 191.75 FEET BELOW LAND SURFACE DATUM SEP 25, 1972.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 19, 1980	186.95	S	AUG 05, 1980	199.56	P S	SEP 10, 1980	199.54	P S

WELL 08S 24E 31DAC1 SITE NUMBER 424053113412801

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 8 TO 6 IN (20 TO 15 CM), REPORTED DEPTH 194 FT (59.1 M), 8-IN (20-CM) CASING 0-85 FT (0-25.9 M), 6-IN (15-CM) CASING 85-188 FT (25.9-57.3 M), PERFORATED 158-188 FT (48.2-57.3 M). LSD 4,226.54 FT (1,288.249 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF1947. RECORDER INSTALLED SEPT. 20, 1950. RECORDER MAINTAINED, AND ITS RECORD FURNISHED BY US BUREAU OF RECLAMATION. PERIODIC MEASUREMENTS MADE BY US GEOL SURVEY. MP NO. 1 TOP OF 8-IN (20-CM) CASING, 1.80 FT (0.549 M) ABOVE LSD (SINCE SEPT. 6, 1950).

RECORDS AVAILABLE 1950 - 1980, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 140.50 FEET BELOW LAND SURFACE DATUM OCT 18, 1953.

LOWEST WATER LEVEL 159.76 FEET BELOW LAND SURFACE DATUM JUL 30, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL
OCT 05, 1979	156.41		DEC 25, 1979	154.66		APR 14, 1980	155.08		AUG 05, 1980	159.17
10	156.16		27	154.74	S	22	156.07	S	10	159.08
15	155.60		JAN 23, 1980	154.63	S	25	156.45		15	158.89
20	154.95		29	154.30	S	30	156.60		20	158.83
24	154.78	S	FEB 25	154.64	S	MAY 05	156.83		25	158.55
25	154.79		28	154.64		10	157.02		31	158.40
27	154.81		MAR 05	154.52		14	156.90		SEP 05	158.39
NOV 28	154.79	S	10	154.72		20	156.50	S	10	158.41
30	154.59		15	154.66		22	156.34		15	157.73
DEC 05	154.44		20	154.79		JUN 18	157.15	S	20	157.17
10	154.49		25	154.80		20	157.56		25	157.29
15	154.61		31	154.84		JUL 28	159.73	S	30	157.42
19	154.54	S	APR 05	154.89		30	159.76			
20	154.40		10	155.05		31	159.70			

WELL 08S 25E 16DAC1 SITE NUMBER 424334113320201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN (51 CM), REPORTED DEPTH 230 FT (70.1 M), CASING DEPTH NOT AVAILABLE. LSD 4,243.40 FT (1,293.388 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 3 TOP OF 1-IN (2.5-CM) HOLE INSIDE PUMPBASE NORTH SIDE, 1.62 FT (0.494 M) ABOVE LSD (SINCE MAY 25, 1977).

RECORDS AVAILABLE 1949 - 1955, 1956 TO CURRENT YEAR.

HIGHEST WATER LEVEL 148.37 FEET BELOW LAND SURFACE DATUM DEC 01, 1953.

LOWEST WATER LEVEL 166.37 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 19, 1980	162.60	S	AUG 06, 1980	166.37	S	SEP 14, 1980	167.81	V S

WELL 08S 25E 36DAA1 SITE NUMBER 424102113282101

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 12 TO 10 IN (30 TO 25 CM). REPORTED DEPTH 207 FT (63.1 M), 12-IN (30-CM)CASING 0-56 FT (0-17.1 M), 10-IN (25-CM) CASING 0-111 FT (0-33.8 M), PERFORATED, INTERVAL NOTAVAILABLE. LSD 4,209.00 FT (1,282.903 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF1947. MEASUREMENTS PRIOR TO MAR. 21, 1972, MADE BY US BUREAU OF RECLAMATION. RECORDER INSTALLED APR. 14, 1952. RECORDER REMOVED SEPT. 12, 1962. MP NO. 2 TOP OF 10-IN (25-CM) CASING, 0.63 FT(0.192 M) ABOVE LSD (SINCE MAR. 12, 1952).

RECORDS AVAILABLE 1951, 1952 - 1962, 1963 - 1972, 1973 - 1980, 1980 TO CURRENT YEAR.

HIGHEST WATER LEVEL 97.04 FEET BELOW LAND SURFACE DATUM SEP 10, 1952.

LOWEST WATER LEVEL 112.10 FEET BELOW LAND SURFACE DATUM MAR 19, 1980.

WATER LEVELS IN FFET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 19, 1980	112.10	S	JUL 27, 1980	111.55	S	AUG 19, 1980	111.39	S	SEP 16, 1980	111.35	S
JUN 19	111.17	S	AUG 06	111.48	S						

WELL 09S 22E 16CDB1 SITE NUMBER 423817113530201

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 21 IN (53 CM), DEPTH 297.0 FT (90.5 M), CASED TO 16 FT (4.9 M). LSD ABOUT 4,201 FT (1,280 M) NGVD OF 1929. MAY 17, 1961, WELL WAS DEEPENED TO A REPORTED DEPTH OF 380 FT (115.8 M), DIAM 20 IN (51 CM), CASED TO 20 FT (6.1 M). APR. 25, 1966, WELL WAS REAMED AND DEEPENED TO A REPORTED DEPTH OF 495 FT (150.9 M), 10-IN (25-CM) CASING 322-384 FT (98.1-117.0 M), 10-IN (25-CM) BORE 384-473 FT (117.0-144.2 M), 8-IN (20-CM) BORE 473-495 FT (144.2-150.9 M). MP NO. 2 TOP OF 1-IN (2.5-CM) TAP HOLE INSIDE PUMPBASE EAST SIDE, 0.70 FT (0.213 M) ABOVE LSD (SINCE MAY 18, 1966).

RECORDS AVAILABLE 1952 - 1953, 1954 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVFL 235.52 FEET BELOW LAND SURFACE DATUM MAR 23, 1954.

LOWEST WATER LEVEL 258.69 FEET BELOW LAND SURFACE DATUM SEP 27, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 20, 1980	249.97	S	SEP 16, 1980	259.75	S S

WELL 09S 22E 33ADA1 SITE NUMBER 423604113522401

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 12 IN (30 CM), DEPTH 252.5 FT (77.0 M), CASED TO 90 FT (27.4 M). LSD 4,190.42 FT (1,277.240 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED JAN. 10, 1950. RECORDER REMOVED OCT. 16, 1950. MP NO. 5 TOP OF HOLE IN WELL SEAL NORTH SIDE,2.80 FT (0.853 M) ABOVE LSD (SINCE SEPT. 16, 1965).

RECORDS AVAILABLE 1948 - 1949, 1950, 1951 - 1954, 1955 TO CURRENT YEAR.

HIGHEST WATER LEVEL 216.96 FEET BELOW LAND SURFACE DATUM MAY 25, 1977.

LOWEST WATER LEVEL 240.39 FEET BELOW LAND SURFACE DATUM SEP 17, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 20, 1980	237.08	S	AUG 07, 1980	239.40	S	SEP 16, 1980	240.01	S

WELL 13S 33E 04ADD1 SITE NUMBER 421917112354901

DRILLED UNUSED WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 4 IN (10 CM), DEPTH 145,8 FT (44,4 M), CASED TO 122 FT (37,2 M), LSD ABOUT5,153 FT (1,571 M) NGVD OF 1929, MP NO, 1 TOP OF 4-IN (10-CM) CASING SOUTH SIDE, 0,70 FT (0,213 M) ABOVE LSD (SINCE MAY 5, 1947).

RECORDS AVAILABLE 1947, 1969 - 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 55,70 FEET BELOW LAND SURFACE DATUM MAR 11, 1976.

LOWEST WATER LEVEL 81,60 FEET BELOW LAND SURFACE DATUM MAY 05, 1947.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 27, 1980	57,79	S	SEP 08, 1980	58,23	S

WELL 13S 35E 36CCD1 SITE NUMBER 421634112191401

DRILLED UNUSED WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 4 IN (10 CM), DEPTH 131 FT (39,9 M), CASED TO 131 FT (39,9 M), LSD ABOUT4,853 FT (1,479 M) NGVD OF 1929, MP NO, 1 TOP OF CASING, 0,80 FT (0,244 M) ABOVE LSD (SINCE MAR, 11, 1976).

RECORDS AVAILABLE 1946 - 1959, 1962 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 79,72 FEET BELOW LAND SURFACE DATUM MAR 11, 1976.

LOWEST WATER LEVEL 85,33 FEET BELOW LAND SURFACE DATUM APR 21, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 13, 1979	82,07	S	MAR 26, 1980	81,96	S	SEP 09, 1980	82,08	S

WELL 14S 35E 13DBA1 SITE NUMBER 421219112184101

DRILLED IRRIGATION WATER-TABLE WELL IN GRAVELOF QUATERNARY AGE, DIAM 14 IN (36 CM), REPORTED DEPTH 289 FT (88,1 M), CASED TO 289 FT (88,1 M), PERFORATED OPPOSITE ALL GRAVELS 114-289 FT (34,7-88,1 M), LSD ABOUT 4,641 FT (1,415 M) NGVD OF 1929, MPNO, 1 TOP OF 1/2-IN (1,3-CM) HOLE IN PUMPBASE WEST SIDE, 0,80 FT (0,244 M) (SINCE MAR, 11, 1976).

RECORDS AVAILABLE 1943 - 1952, 1953 TO CURRENT YEAR.

HIGHEST WATER LEVEL 66,07 FEET BELOW LAND SURFACE DATUM APR 26, 1953.

LOWEST WATER LEVEL 100,10 FEET BELOW LAND SURFACE DATUM NOV 11, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 26, 1980	68,89	S	SEP 09, 1980	69,95	S

WELL 15S 32E 09AAA2 SITE NUMBER 420819112428402

DRILLED STOCK WATER-TABLE WELL IN SEDIMENTS OF QUATERNARY AGE, DIAM 10 IN (25 CM), REPORTED DEPTH 270 FT (82.3 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 5,040 FT (1,536 M) NGVD OF 1929. MP NO. 1 TOP OF STEEL PLATE OVER 10-IN (25-CM) CASING, 0.70 FT (0.213 M) ABOVE LSD (SINCE APR. 7, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 211.43 FEET BELOW LAND SURFACE DATUM APR 07, 1970.

LOWEST WATER LEVEL 214.64 FEET BELOW LAND SURFACE DATUM SEP 08, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 27, 1980	214.15	S	SEP 08, 1980	214.64	S

WELL 15S 35E 01DAA1 SITE NUMBER 420855112182301

DRILLED IRRIGATION ARTESIAN WELL IN GRAVEL OFQUATERNARY AGE, DIAM 3 IN (8 CM), DEPTH 275 FT (83.8 M), CASED TO 249 FT (75.9 M). LSD 4,452.95 FT (1,357.259 M) NGVD OF 1929. REPORTED FLOWING JULY 25, 1931. MP NO. 1 TOP OF 3-IN (8-CM) CASING, 1.80 FT (0.549 M) ABOVE LSD (SINCE JULY 12, 1943).

RECORDS AVAILABLE 1931, 1943 - 1976, 1977 - 1978, 1979 TO CURRENT YEAR.

HIGHEST WATER LEVEL 33.10 FEET ABOVE LAND SURFACE DATUM MAY 03, 1944.

LOWEST WATER LEVEL 8.46 FEET BELOW LAND SURFACE DATUM SEP 14, 1962.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 26, 1980	21.40 E M

WELL 15S 35E 22AAB1 SITE NUMBER 420636112175201

DRILLED IRRIGATION WATER-TABLE WELL IN GRAVELOF QUATERNARY AGE, DIAM 10 IN (25 CM), REPORTED DEPTH 229 FT (69.8 M), CASED TO 229 FT (69.8 M). LSD ABOUT 4,575 FT (1,394.460 M) NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN (1.9-CM) HOLE IN PUMPBASE SOUTHWEST SIDE, 0.90 FT (0.274 M) ABOVE LSD (SINCE JUNE 18, 1963).

RECORDS AVAILABLE 1963 TO CURRENT YEAR.

HIGHEST WATER LEVEL 125.69 FEET BELOW LAND SURFACE DATUM SEP 20, 1975.

LOWEST WATER LEVEL 142.00 FEET BELOW LAND SURFACE DATUM SEP 15, 1963.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 26, 1980	133.99	V S	SEP 09, 1980	132.87	S

WELL 15S 36E 22ABA1 SITE NUMBER 420638112140301

DRILLED IRRIGATION ARTESIAN WELL IN GRAVEL OFQUATERNARY AGE, DIAM 8 IN (20 CM), DEPTH 100 FT (30.5 M), CASING DEPTH NOT AVAILABLE. LSD ABOUT 4,419 FT (1,347 M) NGVD OF 1929. MP NO. 1 TOP OF CASING COUPLING, 1.00 FT (0.305 M) ABOVE LSD (SINCE SEPT. 15, 1963).

RECORDS AVAILABLE 1943 - 1952, 1953 - 1960, 1964 TO CURRENT YEAR.

HIGHEST WATER LEVEL 24.75 FEET ABOVE LAND SURFACE DATUM MAR 20, 1952.

LOWEST WATER LEVEL 12.03 FEET ABOVE LAND SURFACE DATUM SEP 15, 1963.

WATER LEVELS IN FEET ABOVE LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 26, 1980	18.95 E M	SEP 08, 1980	19.43 E M

WELL 16S 30E 09ABB2 SITE NUMBER 420323112571202

DRILLED STOCK WATER-TABLE WELL IN SALT LAKE FORMATION, DIAM 10 TO 8 IN (25 TO 20 CM), REPORTED DEPTH 485 FT (147.8 M), 10-IN (25-CM) CASING 0-212 FT (0-64.6 M), 8-IN (20-CM) CASING 200-485 FT (61.0-147.8 M), PERFORATED 200-485 FT (61.0-147.8 M). LSD ABOUT 4,658 FT (1,420 M) NGVD OF 1929. MP NO. 2 TOP OF 10-IN (25-CM) CASING NORTHWEST SIDE, 1.20 FT (0.366 M) ABOVE LSD (SINCE SEPT. 21, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 68.48 FEET BELOW LAND SURFACE DATUM SEP 08, 1980.

LOWEST WATER LEVEL 78.46 FEET BELOW LAND SURFACE DATUM JUN 19, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 27, 1980	68.85 S	SEP 08, 1980	68.48 S

WELL 16S 32E 27DAB1 SITE NUMBER 420027112414201

DRILLED IRRIGATION WATER-TABLE WELL IN VALLEYFILL OF CENOZOIC AGE, DIAM 16 IN (41 CM), REPORTED DEPTH 230 FT (70.1 M), CASED TO 214 FT (65.2 M), PERFORATED 30-214 FT (9.1-65.2 M). MP NO. 1 BOTTOM OF 1/4-IN (0.64-CM) HOLE OUTSIDE PUMPBASE NORTH SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE APR. 13, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 17.55 FEET BELOW LAND SURFACE DATUM SEP 27, 1973.

LOWEST WATER LEVEL 37.11 FEET BELOW LAND SURFACE DATUM SEP 12, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL
MAR 27, 1980	18.16 S

WELL 05S 28E 26BBD1 SITE NUMBER 425746113093901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 4 IN (10 CM), DEPTH 760.6 FT (231.8 M), CASED TO 760.6 FT (231.8 M), PERFORATED 730.6-760.6 FT (222.7-231.8 M). LSD 4,941.00 FT (1,506.017 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1962. MP NO. 1 TOP OF 2-IN (5.1-CM) PIPE COUPLING, 2.27 FT (0.692 M) ABOVE LSD (SINCE SEPT. 23, 1970).

RECORDS AVAILABLE 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 678.19 FEET BELOW LAND SURFACE DATUM MAR 29, 1973.

LOWEST WATER LEVEL 683.88 FEET BELOW LAND SURFACE DATUM SEP 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 06, 1979	683.75	S	MAR 17, 1980	682.58	S	JUL 30, 1980	682.93	S	SEP 16, 1980	683.27	S
JAN 28, 1980	683.06	S	MAY 21	682.02	S	AUG 08	683.28	S			

WELL 05S 33E 35CCD1 SITE NUMBER 425608112335301

DRILLED OBSERVATION WATER-TABLE WELL IN GRAVEL OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 60 FT (18.3 M), CASED TO 60 FT (18.3 M), OPEN BOTTOM. LSD 4,424.58 FT (1,348.612 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED JULY 23, 1957. RECORDER REMOVED SEPT. 20, 1969. DIGITAL RECORDER INSTALLED JULY 21,1977. MP NO. 2 TOP OF CASING NORTHEAST SIDE, 2.10 FT (0.640 M) ABOVE LSD (SINCE MAR. 22, 1955).

RECORDS AVAILABLE 1955 - 1956, 1957 - 1969, 1970 TO CURRENT YEAR.

HIGHEST WATER LEVEL 22.74 FEET BELOW LAND SURFACE DATUM OCT 12, 1957.

LOWEST WATER LEVEL 28.50 FEET BELOW LAND SURFACE DATUM JUL 14, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	25.34	JAN 05, 1980	25.44	APR 15, 1980	25.36	JUL 10, 1980	27.30
10	25.25	10	25.33	20	25.33	15	27.33
15	25.02	23	25.38	25	25.39	20	27.48
20	24.79	25	25.25	30	25.48	25	27.39
25	24.87	31	25.51	MAY 05	25.72	31	26.92
31	24.93	FEB 05	25.51	10	25.29	AUG 05	26.25
NOV 05	25.02	10	25.48	15	25.03	10	26.09
10	25.05	15	25.46	20	24.88	15	25.62
12	24.63	20	25.23	25	24.82	20	25.18
15	25.18	25	25.32	31	24.75	25	25.24
20	25.21	29	25.35	JUN 05	24.53	31	25.44
25	25.23	MAR 05	25.30	06	24.49	SEP 05	25.53
30	25.33	10	25.37	10	24.90	10	25.52
DEC 05	25.33	15	25.36	15	25.96	15	25.26
10	25.29	20	25.39	20	26.85	20	25.40
15	25.38	25	25.33	25	27.20	25	25.43
20	25.42	31	25.30	29	27.79	30	25.12
25	25.47	APR 05	25.21	30	27.08		
31	25.51	10	25.26	JUL 05	26.89		

WELL 06S 32E 27ADD1 SITE NUMBER 425218112413901

DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF QUATERNARY AGE, DIAM 6 IN (15 CM), DEPTH 62.7 FT (19.1 M), CASED TO 73 FT (22.2 M), PERFORATED63-66 FT (19.2-20.1 M), CASING FILLED WITH SAND AND GRAVEL 63-73 FT (19.2-22.2 M). LSD 4,416.70 FT (1,346.210 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. RECORDER INSTALLED FEB. 4, 1955. RECORDER REMOVED JAN. 15, 1969. DIGITAL RECORDER INSTALLED JULY 20, 1977. MP NO. 2 TOP OF 6-IN (15-CM) CASING NORTH SIDE, 2.30 FT (0.701 M) ABOVE LSD (SINCE JAN. 12, 1955).

RECORDS AVAILABLE 1954, 1955 - 1969, 1970 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.35 FEET BELOW LAND SURFACE DATUM MAY 22, 1971.

LOWEST WATER LEVEL 39.86 FEET BELOW LAND SURFACE DATUM OCT 15, 1961.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 05, 1979	37.53	JAN 15, 1980	34.80	APR 20, 1980	31.82	JUL 20, 1980	35.02
10	37.62	20	34.57	25	31.75	25	35.35
15	37.64	25	34.37	29	31.72	31	35.66
20	37.58	31	34.13	30	31.72	AUG 05	35.76
25	37.52	FEB 05	33.95	MAY 01	31.72	10	35.78
31	37.38	10	33.79	05	31.80	11	35.78
NOV 05	37.21	15	33.63	10	31.88	12	35.78
10	37.04	20	33.47	15	31.87	15	35.76
15	36.88	25	33.32	20	31.84	20	35.57
20	36.71	29	33.20	25	31.80	25	35.12
25	36.56	MAR 05	33.01	31	31.77	31	34.88
30	36.41	10	32.83	JUN 05	31.75	SEP 05	34.83
DEC 05	36.25	15	32.67	10	31.73	10	34.88
10	36.08	18	32.59	15	31.90	15	35.05
15	35.92	20	32.54	20	32.33	20	35.15
20	35.76	25	32.40	25	32.80	25	35.17
25	35.59	31	32.24	30	33.32	30	35.15
31	35.40	APR 05	32.12	JUL 05	33.90		
JAN 05, 1980	35.23	10	32.00	10	34.27		
10	35.03	15	31.90	15	34.65		

WELL 07S 30E 24DDC1 SITE NUMBER 424732112532001

DRILLED IRRIGATION WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 16 IN (41 CM), REPORTED DEPTH 215 FT (65.5 M), CASED TO 187 FT (57.0 M). LSD 4,394.33 FT (1,339.392 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. ANALOG RECORDER INSTALLED MAY 25, 1961. RECORDER REMOVED SEPT. 15, 1962. MP NO. 3 TOP OF 1-IN (2.5-CM) HOLE INSIDE PUMPBASE WEST SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE AUG. 7, 1978).

RECORDS AVAILABLE 1953, 1961 - 1962, 1963 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 51.98 FEET BELOW LAND SURFACE DATUM MAR 19, 1970.

LOWEST WATER LEVEL 79.26 FEET BELOW LAND SURFACE DATUM SEP 09, 1977.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 17, 1980	55.29	S	AUG 08, 1980	60.39	S	SEP 16, 1980	62.29	S

WELL 07S 30E 28BBC1 SITE NUMBER 424720112574701

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 20 IN (51 CM), DEPTH 287.8 FT (87.7 M), CASED TO 3 FT (0.9 M), LSD 4,533.55 FT (1,381.826 M) NGVD OF 1929. ORIGINAL WELL, DIAM 18 TO 12 IN (46 TO 30 CM), DEPTH 518 FT (157.9 M), CASINGWAS PULLED EXCEPT FOR A PIECE THAT IS BELOW WATER LEVEL, HOLE THEN FILLED TO PRESENT DEPTH. RECORDER INSTALLED MAY 25, 1961. RECORDER REMOVED JAN. 15, 1969. MP NO. 1 TOP OF CASING NORTH SIDE, 1.40FT (0.427 M) ABOVE LSD (SINCE MAY 23, 1961).

RECORDS AVAILABLE 1961 - 1969, 1970 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 194.91 FEET BELOW LAND SURFACE DATUM MAY 06, 1976.

LOWEST WATER LEVEL 207.80 FEET BELOW LAND SURFACE DATUM JUL 19, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1979	200.12	S	MAR 17, 1980	197.56	S	JUL 30, 1980	205.37	S	SEP 16, 1980	203.15	S
JAN 28, 1980	198.34	S	MAY 21	197.72	S	AUG 08	204.93	S			

WELL 08S 29E 34CBC1 SITE NUMBER 424052113033901

DRILLED OBSERVATION WATER-TABLE WELL IN RAFT FORMATION, DIAM 4 TO 3 IN (10 TO 8 CM), DEPTH 665 FT (202.7 M), 4-IN (10-CM) CASING 0-170 FT (0-51.8 M), 3-IN (8-CM) CASING 313-665 FT (95.4-202.7 M), CONCRETE SEAL 665-673 FT (202.7-205.1 M). LSDABOUT 4,388 FT (1,337 M) NGVD OF 1929. MP NO. 1 TOP OF 4-IN (10-CM) CASING EAST SIDE AT LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 138.08 FEET BELOW LAND SURFACE DATUM MAR 23, 1972.

LOWEST WATER LEVEL 151.31 FEET BELOW LAND SURFACE DATUM DEC 02, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1979	149.65	S	MAR 15, 1980	148.74	S	JUL 30, 1980	149.12	S	SEP 16, 1980	148.88	S
JAN 24, 1980	149.13	S	MAY 21	149.02	S	AUG 09	148.89	S			

WELL 08S 29E 34CBC2 SITE NUMBER 424052113033902

DRILLED OBSERVATION WATER-TABLE WELL IN SAND OF UNKNOWN AGE, DIAM 3 IN (8 CM), DEPTH 818 FT (249.3 M), 3-IN (8-CM) CASING 313-818 FT (95.4-249.3 M), PERFORATED 697-702 FT (212.4-214.0 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-704 FT (0-214.6 M), PERFORATED 696.5-701.5 FT (212.3-213.8 M), CASING FILLED WITH GRAVEL 673-818 FT (205.1-249.3 M), CONCRETE SEAL 665-673 FT (202.7-205.1 M), 818-826 FT (249.3-251.8 M). LSD ABOUT 4,388 FT (1,337 M) NGVD OF 1929. MP NO. 1 TOP OF 3/4-IN (8-CM) PIPE EAST SIDE, 1.44 FT (0.439 M) ABOVE LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 149.38 FEET BELOW LAND SURFACE DATUM OCT 30, 1975.

LOWEST WATER LEVEL 155.74 FEET BELOW LAND SURFACE DATUM APR 16, 1971.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1979	152.39	S	MAY 21, 1980	152.84	S	AUG 09, 1980	152.47	S	SEP 16, 1980	152.12	S
JAN 24, 1980	152.42	S	JUL 30	152.65	S						

WELL 08S 29E 34CBC3 SITE NUMBER 424052113033903

DRILLED OBSERVATION ARTESIAN WELL IN STARLIGHT FORMATION, DIAM 3 IN (8 CM), DEPTH 1,028.1 FT (313.4 M), 3-IN (8-CM) CASING 826-899 FT (251.8-274.0 M), PERFORATED 852-858 FT (259.7-261.5 M), 1-IN (2.5-CM) PIEZOMETER TUBE 0-861 FT (0-262.4 M), PERFORATED 853.5-858.5 FT (260.1-261.7 M), CASING AND HOLE FILLED WITH GRAVEL 826-1,028.1 FT (251.8-313.4 M), CONCRETE SEAL 818-826 FT (249.3-251.8 M). LSD ABOUT 4,388 FT (1,337 M)NGVD OF 1929. MP NO. 1 TOP OF 1-IN (2.5-CM) PIPE EAST SIDE, 1.06 FT (0.323 M) ABOVE LSD (SINCE DEC.2, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 57.80 FEET BELOW LAND SURFACE DATUM DEC 02, 1970.

LOWEST WATER LEVEL 93.30 FEET BELOW LAND SURFACE DATUM SEP 16, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 29, 1979	92.34	S	MAY 21, 1980	92.88	S	AUG 09, 1980	93.16	S	SEP 16, 1980	93.30	S
JAN 24, 1980	92.52	S	JUL 30	93.10	S						

WELL 08S 30E 23DCC1 SITE NUMBER 424220112544601

FORMERLY SITE ID NO. 424359112540801, WELL NO. 08S-30E-23DC01. DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 5 IN (13 CM), DEPTH 273FT (83.2 M), CASED TO 28 FT (8.5 M). LSD 4,511.5 FT (1,375.10 M) NGVD OF 1929. MP NO. 1 TOP OF CASING SOUTHWEST SIDE, 0.40 FT (0.122 M) ABOVE LSD (SINCE AUG. 17, 1949).

RECORDS AVAILABLE 1949, 1950 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 204.88 FEET BELOW LAND SURFACE DATUM OCT 16, 1961.

LOWEST WATER LEVEL 214.80 FEET BELOW LAND SURFACE DATUM AUG 17, 1949.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 17, 1980	207.30	S	AUG 12, 1980	207.50	S	SEP 16, 1980	207.67	S

WELL 08S 31E 04CBB1 SITE NUMBER 424512112505201

DRILLED UNUSED WATER-TABLE WELL IN UNKNOWN AQUIFER, DIAM 6 IN (15 CM), DEPTH 277 FT (84.4 M), CASED TO 16 FT (4.9 M). LSD 4,568.4 FT (1,392.45 M)NGVD OF 1929. MP NO. 1 TOP OF CASING EAST SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE AUG. 19, 1949).

RECORDS AVAILABLE 1949, 1950 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 232.57 FEET BELOW LAND SURFACE DATUM JUN 21, 1950.

LOWEST WATER LEVEL 245.01 FEET BELOW LAND SURFACE DATUM SEP 20, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 17, 1980	242.32	S	AUG 12, 1980	244.98	S	SEP 16, 1980	244.74	S

WELL 09S 28E 18BAD1 SITE NUMBER 423837113134301

DRILLED OBSERVATION WATER-TABLE WELL IN RAFT FORMATION, DEPTH 150 FT (45.7 M), 1-IN (2.5-CM) PIEZOMETER TUBE 0-25 FT (0-7.6 M), PERFORATED17.5-22.5 FT (5.3-6.9 M). LSD 4,216.80 FT (1,285.281 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 1-IN (2.5-CM) PIPE EAST SIDE, 1.21 FT (0.369 M) ABOVE LSD (SINCEDEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 11.69 FEET BELOW LAND SURFACE DATUM JUN 03, 1976.

LOWEST WATER LEVEL 14.34 FEET BELOW LAND SURFACE DATUM JAN 24, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 06, 1979	14.29	S	MAR 15, 1980	14.30	S	JUL 30, 1980	13.62	S	SEP 16, 1980	13.68	S
JAN 24, 1980	14.34	S	MAY 21	13.89	S	AUG 06	13.62	S			

WELL 09S 28E 18BAD2 SITE NUMBER 423837113134302

DRILLED OBSERVATION ARTESIAN WELL IN RAFT FORMATION, DEPTH 505 FT (153.9 M), 3/4-IN (1.9-CM) PIEZOMETER TUBE 0-420 FT (0-128.0 M), PERFORATED 412.5-417.5 FT (125.7-127.2 M), GRAVEL PACKED 318-505 FT (96.9-153.9 M), CONCRETE SEAL 280-318 FT (85.3-96.9 M), 505-518 FT (153.9-157.9 M). LSD 4,216.80 FT (1,285.281 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 3/4-IN (1.9-CM) PIPE EAST SIDE, 1.83 FT (0.558 M) ABOVE LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 1.93 FEET ABOVE LAND SURFACE DATUM MAY 04, 1971.

LOWEST WATER LEVEL 13.84 FEET BELOW LAND SURFACE DATUM DEC 06, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 06, 1979	13.84	S	MAR 15, 1980	12.19	S	JUL 30, 1980	10.70	S	SEP 16, 1980	11.89	S
JAN 24, 1980	13.32	S	MAY 21	10.65	S	AUG 06	10.87	S			

WELL 09S 28E 18BAD3 SITE NUMBER 423837113134303

DRILLED OBSERVATION ARTESIAN WELL IN STARLIGHT FORMATION, DEPTH 1,013.7 FT (309.0 M), 1-IN (2.5-CM) PIEZOMETER TUBE 0-554 FT (0-168.8 M), PERFORATED 546.5-551.5 FT (166.6-168.1 M), GRAVEL PACKED 518-1,013.7 FT (157.9-309.0 M), CONCRETE SEAL505-518 FT (153.9-157.9 M). LSD 4,216.80 FT (1,285.281 M) NGVD OF 1929, SUPPLEMENTARY ADJUSTMENT OF 1961. MP NO. 1 TOP OF 1-IN (2.5-CM) PIPE, 1.30 FT (0.396 M) ABOVE LSD (SINCE DEC. 2, 1970).

RECORDS AVAILABLE 1970, 1971 TO CURRENT YEAR.

HIGHEST WATER LEVEL 31.16 FEET BELOW LAND SURFACE DATUM JUL 30, 1980.

LOWEST WATER LEVEL 67.62 FEET BELOW LAND SURFACE DATUM DEC 02, 1970.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
DEC 06, 1979	32.20	S	MAR 15, 1980	31.72	S	JUL 30, 1980	31.16	S	SEP 16, 1980	31.19	S
JAN 24, 1980	32.07	S	MAY 21	31.24	S	AUG 06	31.19	S			

WELL 06N 44E 22DDC1 SITE NUMBER 434936111143601

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN (20 CM), DEPTH 257.5 FT (84.0 M), CASED TO 242 FT (73.8 M). LSD 6,027.70 FT (1,837.243 M) NGVD OF 1929. MP NO. 1 TOP OF CASING, 1.65 FT (0.503 M) ABOVE LSD (SINCE JULY 18, 1958).

RECORDS AVAILABLE 1958, 1959 - 1966, 1967 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 177.68 FEET BELOW LAND SURFACE DATUM MAR 17, 1972.

LOWEST WATER LEVEL 201.69 FEET BELOW LAND SURFACE DATUM APR 23, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 18, 1980	198.84	S	SEP 16, 1980	199.95	S

WELL 04N 45E 13ADA1 SITE NUMBER 434032111045001

DRILLED OBSERVATION WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 16 IN (41 CM), DEPTH 304.0 FT (92.7 M), CASED TO 301 FT (91.7 M), PERFORATED 230-240 FT (70.1-73.2 M), 255-295 FT (77.7-89.9 M). LSD 6,275.34 FT (1,912.739 M) NGVD OF 1929, WESTERN WYOMING SUPPLEMENTARY ADJUSTMENT OF 1940. RECORDER INSTALLED JULY 25, 1959. RECORDER REMOVED NOV. 24, 1971. DIGITAL RECORDER INSTALLED JUNE 6, 1977. MP NO. 3 TOP OF CASING EAST SIDE, 1.00 FT (0.305 M) ABOVE LSD (SINCE JULY 25, 1959).

RECORDS AVAILABLE 1958, 1959 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 122.79 FEET BELOW LAND SURFACE DATUM JUN 30, 1971.

LOWEST WATER LEVEL 203.52 FEET BELOW LAND SURFACE DATUM MAR 29, 1978.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 15, 1979	193.03	S	JAN 15, 1980	198.58	APR 15, 1980	202.24	JUL 10, 1980	153.57
20	193.72		20	198.80	20	202.23	15	154.96
25	194.39		25	198.95	23	202.31	20	157.37
31	195.19		31	199.26	25	202.24	25	160.73
NOV 05	195.83		FEB 05	199.46	30	201.92	31	165.26
10	196.20		10	199.69	MAY 05	198.64	AUG 05	168.97
15	196.64		15	199.98	10	188.57	10	172.64
20	196.89		20	200.22	15	181.70	15	175.81
25	196.98		25	200.38	20	180.83	20	178.61
30	196.96		29	200.59	25	177.75	25	180.79
DEC 05	197.02		MAR 05	200.64	31	171.07	31	183.15
10	197.00		10	200.86	JUN 05	171.29	SEP 05	184.86
15	197.17		15	201.07	10	171.41	10	186.26
20	197.29		20	201.21	15	169.63	15	187.56
25	197.55		25	201.41	20	163.46	20	188.65
31	197.76		31	201.65	25	157.62	25	189.68
JAN 05, 1980	197.92		APR 05	201.82	30	153.77	30	190.49
10	198.30		10	202.06	JUL 05	153.07		

WELL 08S 12E 24CCC1 SITE NUMBER 424243115002401

DRILLED IRRIGATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 12 IN (30 CM), REPORTED DEPTH 500 FT (152.4 M), CASED TO 46 FT (14.0 M). LSD ABOUT 3,470 FT (1,058 M) NGVD OF 1929. MP NO. 2 TOP OF HOLE INSIDE PUMPBASE SOUTH SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE JUNE 3, 1968).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 200.84 FEET BELOW LAND SURFACE DATUM APR 25, 1967.

LOWEST WATER LEVEL 294.64 FEET BELOW LAND SURFACE DATUM OCT 21, 1969.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
APR 16, 1980	237.68	S	AUG 08, 1980	237.03	S	SEP 18, 1980	241.39	S

WELL 08S 13E 23CCD1 SITE NUMBER 424242114541601

DRILLED DOMESTIC WATER-TABLE WELL IN BANBURY FORMATION, DIAM 6 IN (15 CM), REPORTED DEPTH 100 FT (30.5 M), CASED TO 50 FT (15.2 M). LSD ABOUT 3,390 FT (1,033 M) NGVD OF 1929. MP NO. 1 HOLE IN TOP OF 6-IN (15-CM) CASING, 0.80 FT (0.244 M) ABOVE LSD (SINCE FEB. 16, 1967).

RECORDS AVAILABLE 1967 TO CURRENT YEAR.

HIGHEST WATER LEVEL 65.27 FEET BELOW LAND SURFACE DATUM NOV 12, 1975.

LOWEST WATER LEVEL 73.34 FEET BELOW LAND SURFACE DATUM AUG 12, 1968.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	66.63	S	MAR 18, 1980	69.56	S	JUL 27, 1980	74.62 P	S	SEP 18, 1980	67.06	S
JAN 20, 1980	68.43	S	MAY 20	70.53	S	AUG 08	68.72	S			

WELL 09S 13E 20CCD1 SITE NUMBER 423724114572101

DRILLED IRRIGATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 20 IN (51 CM), REPORTED DEPTH 920 FT (280.4 M), CASED TO 165 FT (50.3 M). LSD ABOUT 3,805 FT (1,160 M) NGVD OF 1929. JUNE 17, 1968, WELL HAD FILLED IN TO A DEPTH OF 790.4 FT (240.9 M). RECORDER INSTALLED JUNE 4, 1968. RECORDER REMOVED AUG. 10, 1971. MP NO. 1 TOP OF 20-IN (51-CM) CASING EAST SIDE, 0.70 FT (0.213 M) ABOVE LSD (SINCE FEB. 16, 1967).

RECORDS AVAILABLE 1967, 1968 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 440.80 FEET BELOW LAND SURFACE DATUM SEP 23, 1967.

LOWEST WATER LEVEL 454.79 FEET BELOW LAND SURFACE DATUM SEP 21, 1976.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	452.33	V	MAR 18, 1980	449.92	V	JUL 28, 1980	454.13	V	SEP 18, 1980	453.30	V
JAN 20, 1980	451.05	V	MAY 20	452.18	V	AUG 07	453.55	S			

WELL 10S 12E 11DBD1 SITE NUMBER 423406115003401

DRILLED UNUSED IRRIGATION WATER-TABLE WELL INIDAVADA VOLCANICS, DIAM 24 IN (61 CM), DEPTH 687.9 FT (209.7 M), CASED TO 6 FT (1.8 M). LSD 3,750 FT (1,143 M) NGVD OF 1929. MP NO. 1 TOP OF CASING NORTHEAST SIDE, 0.50 FT (0.152 M) ABOVE LSD (SINCE AUG. 2, 1962).

RECORDS AVAILABLE 1962, 1968 TO CURRENT YEAR.

HIGHEST WATER LEVEL 326.32 FEET BELOW LAND SURFACE DATUM AUG 02, 1962.

LOWEST WATER LEVEL 428.17 FEET BELOW LAND SURFACE DATUM SEP 18, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	397.65	S	MAR 18, 1980	371.33	S	JUL 28, 1980	410.92	S	SEP 18, 1980	428.17	S
JAN 20, 1980	382.27	S	MAY 20	380.39	S	AUG 07	415.81	S			

WELL 10S 18E 20DDD1 SITE NUMBER 423207114215301

DRILLED PUBLIC SUPPLY WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 8 TO 6 IN (20 TO 15 CM), REPORTED DEPTH 1,200 FT (365.8 M), 8-IN (20-CM) CASING 0-735 FT (0-224.0 M), 6-IN (15-CM) CASING 735-1,110 FT (224.0-338.3 M), PERFORATED 300-1,110 FT (91.4-338.3 M). LSD ABOUT 3,919 FT (1,194 M) NGVD OF 1929. RECORDER INSTALLED AUG. 13, 1951. RECORDER REMOVED FEB. 12, 1952. MP NO. 5 TOP OF HOLE IN CASING COVER WEST SIDE, 1.30 FT (0.396 M) ABOVE LSD (SINCE MAR. 19, 1973).

RECORDS AVAILABLE 1951, 1953 - 1961, 1962 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 164.70 FEET BELOW LAND SURFACE DATUM SEP 14, 1972.

LOWEST WATER LEVEL 180.34 FEET BELOW LAND SURFACE DATUM JUL 17, 1979.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	173.76	S	MAR 12, 1980	176.73	S	JUL 29, 1980	178.72	S	SEP 09, 1980	175.80	S
JAN 25, 1980	175.06	S	MAY 20	178.36	S	AUG 06	180.08	V			

WELL 11S 15E 07ACB1 SITE NUMBER 422913114442601

DRILLED OBSERVATION WATER-TABLE WELL IN BANBURY FORMATION, DIAM 6 IN (15 CM), DEPTH 347.0 FT (105.8 M), CASED TO 275 FT (83.8 M), PERFORATED 225-275 FT (68.6-83.8 M). LSD 4,108.14 FT (1,252.161 M) NGVD OF 1929, PACIFIC NORTHWESTSUPPLEMENTARY ADJUSTMENT OF 1947. MP NO. 2 TOP EDGE OF CASING CAP WEST SIDE, 1.05 FT (0.320 M) ABOVE LSD (SINCE NOV. 15, 1960).

RECORDS AVAILABLE 1960 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 219.94 FEET BELOW LAND SURFACE DATUM SEP 15, 1980.

LOWEST WATER LEVEL 237.89 FEET BELOW LAND SURFACE DATUM MAY 22, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
MAR 15, 1980	231.22	S	AUG 07, 1980	224.79	S	SEP 15, 1980	219.94	S

WELL 11S 17E 25DDD2 SITE NUMBER 422600114240901

DRILLED OBSERVATION WATER-TABLE WELL IN SNAKERIVER GROUP, DIAM 6 IN (15 CM), DEPTH 351.6 FT (107.2 M), CASED TO 175 FT (53.3 M), PERFORATED 145-175 FT (44.2-53.3 M). LSD 4,138.54 FT (1,261.427 M) NGVD OF 1929. RECORDER INSTALLED OCT. 27, 1960. RECORDER REMOVED AUG. 11, 1971. MP NO. 3 TOP OF CASING NORTH SIDE, 1.50 FT (0.457 M) ABOVE LSD (SINCE AUG. 21, 1961).

RECORDS AVAILABLE 1960 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 77.23 FEET BELOW LAND SURFACE DATUM AUG 24, 1965.

LOWEST WATER LEVEL 97.23 FEET BELOW LAND SURFACE DATUM APR 06, 1962.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 04, 1979	84.18	S	MAR 13, 1980	94.39	S	AUG 08, 1980	84.52	S	SEP 09, 1980	84.27	S

WELL 11S 19E 17AAH1 SITE NUMBER 422829114150801

DRILLED UNUSED WATER-TABLE WELL IN SNAKE RIVER GROUP, DIAM 14 IN (36 CM), REPORTED DEPTH 860 FT (262.1 M), CASED TO 16 FT (4.9 M). LSD ABOUT 4,229 FT (1,289 M) NGVD OF 1929. JULY 17, 1968, WELL HAD FILLED IN TO A DEPTH OF 834.0 FT (254.2 M). RECORDER INSTALLED AUG. 17, 1961. MP NO. 4 TOP OF CASING NORTHEAST SIDE, 0.40 FT (0.122 M) ABOVE LSD (SINCE JULY 26, 1966).

RECORDS AVAILABLE 1959, 1961 TO CURRENT YEAR.

HIGHEST WATER LEVEL 315.93 FEET BELOW LAND SURFACE DATUM JUN 16, 1974.

LOWEST WATER LEVEL 329.74 FEET BELOW LAND SURFACE DATUM OCT 28, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL		DATE	WATER LEVEL	
OCT 05, 1979	328.47	DEC 15, 1979	328.86	FEB 29, 1980	327.57		JUN 10, 1980	324.92	
10	328.68	20	328.82	MAR 05	327.20		15	325.16	
15	328.74	25	328.93	10	327.24		20	324.89	
20	328.62	31	328.65	15	327.10		25	324.87	
25	328.75	JAN 05, 1980	328.46	20	326.98		30	324.86	
31	328.91	10	327.99	25	326.73		JUL 05	324.87	
NOV 05	329.23	15	328.64	31	326.60		10	325.04	
10	329.14	20	328.69	APR 05	326.37		15	325.18	
12	329.34	25	327.83	10	326.55		20	325.26	
15	329.19	31	328.40	15	326.37		25	325.37	
20	329.35	FEB 05	328.08	19	326.11		31	325.60	
25	329.07	10	327.85	MAY 20	325.32	S	AUG 05	325.71	
30	329.16	15	327.78	25	325.17		10	326.06	
DEC 05	329.08	20	327.56	31	325.12		SEP 09	327.84	S
10	328.80	25	327.79	JUN 05	325.11		25	328.65	

WELL 11S 19E 31ADD1 SITE NUMBER 422529114160701

DRILLED UNUSED WATER-TABLE WELL IN SAND AND GRAVEL OF QUATERNARY AGE, DIAM 8 IN (20 CM), REPORTED DEPTH 350 FT (106.7 M), CASED TO 140 FT (42.7M). LSD 4,197.70 FT (1,279.459 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF1947. MP NO. 2 TOP OF HOLE IN WELL SEAL NORTH SIDE, 4.50 FT (1.372 M) BELOW LSD (SINCE MAY 18, 1967).

RECORDS AVAILABLE 1951 - 1954, 1955 - 1961, 1962 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 118.75 FEET BELOW LAND SURFACE DATUM MAY 03, 1952.

LOWEST WATER LEVEL 176.75 FEET BELOW LAND SURFACE DATUM SEP 09, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	160.28	S	MAR 14, 1980	149.10 R	S	JUL 29, 1980	160.23	S	SEP 09, 1980	176.75	V
JAN 19, 1980	157.24	S	MAY 20	152.40	S	AUG 06	161.81	S			

WELL 11S 20E 33DAD1 SITE NUMBER 422518114062701

DRILLED UNUSED WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 14-8-6 IN (36-20-15 CM), REPORTED DEPTH 680 FT (207.3 M), 14-IN (36-CM) CASING 0-40 FT (0-12.2 M), PERFORATED 8-IN (20-CM) LINER 312-509 FT (95.1-155.1 M), PERFORATED 6-IN (15-CM) LINER 501-638 FT (152.7-194.5 M), LSD 4,245.03 FT (1,293.885 M) NGVD OF 1929, PACIFIC NORTHWEST SUPPLEMENTARY ADJUSTMENT OF 1947. OCT. 14, 1968, WELL HAD FILLED IN TO A DEPTH OF 386.0 FT (117.6 M). MP NO. 3 TOP OF HOLE IN 55-GAL (208-L) DRUM WEST SIDE, 1.95 FT (0.594 M) ABOVE LSD (SINCE SEPT. 16, 1969).

RECORDS AVAILABLE 1951 - 1953, 1954 - 1961, 1962 - 1968, 1969 TO CURRENT YEAR.

HIGHEST WATER LEVEL 37.82 FEET BELOW LAND SURFACE DATUM DEC 11, 1951.

LOWEST WATER LEVEL 239.15 FEET BELOW LAND SURFACE DATUM AUG 06, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	191.24	S	MAR 15, 1980	179.88	S	JUL 30, 1980	238.05	V	SEP 13, 1980	227.17	S
JAN 19, 1980	184.33	S	MAY 20	180.05	S	AUG 06	239.15	V			

WELL 14S 15E 28BAD2 SITE NUMBER 421057114421101

DRILLED OBSERVATION WATER-TABLE WELL IN IDAVADA VOLCANICS, DIAM 6 IN (15 CM), DEPTH 455 FT (138.7 M), CASED TO 341 FT (103.9 M), PERFORATED 231-341 FT (70.4-103.9 M). LSD 4,976.12 FT (1,516.721 M) NGVD OF 1929, PACIFIC NORTHWESTSUPPLEMENTARY ADJUSTMENT OF 1947. AUG. 11, 1971, WELL HAD FILLED IN TO A DEPTH OF 420.4 FT (128.1 M). RECORDER INSTALLED APR. 19, 1961. RECORDER REMOVED AUG. 11, 1971. MP NO. 2 TOP OF CASINGWEST SIDE, 2.10 FT (0.640 M) ABOVE LSD (SINCE APR. 19, 1961).

RECORDS AVAILABLE 1960, 1961 - 1971, 1972 TO CURRENT YEAR.

HIGHEST WATER LEVEL 90.76 FEET BELOW LAND SURFACE DATUM NOV 17, 1965.

LOWEST WATER LEVEL 128.61 FEET BELOW LAND SURFACE DATUM JUL 23, 1980.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL		DATE	WATER LEVEL	
NOV 15, 1979	120.09	S	MAR 25, 1980	115.02	S	JUL 23, 1980	128.61	S	SEP 12, 1980	121.13	S
JAN 19, 1980	117.33	S	MAY 20	115.70	S						

FOOTNOTE EXPLANATION

SITE STATUS: D DRY, E FLOWED RECENTLY, F FLOWING,
G NEARBY FLOWING, N MEASUREMENT DISCONTINUED,
O OBSTRUCTION, P PUMPING, R RECENTLY PUMPED,
S NEARBY PUMPING, V FOREIGN SUBSTANCE, W WELL DESTROYED.

METHOD OF MEASUREMENT: G PRESSURE GAGE, M MANOMETER,
S STEEL TAPE, T ELECTRIC TAPE, V CALIBRATED ELECTRIC TAPE.

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	HYDRO-LOGIC UNIT CODE	GEO-LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
				BONNEVILLE					
432623112031001	43 26 23	112 03 10	01	01N 37E 01DCC1	79-12-07	1530	17040201	110ALVM	--
433013112034401	43 30 13	112 03 44	01	02N 37E 13CBB1	79-11-30	0930	17040201	110SKRV	--
433014112085501	43 30 14	112 08 55	01	02N 37E 18DBA1	79-12-07	1645	17040201	110SKRV	--
432929112023501	43 29 29	112 02 35	01	02N 37E 24ADD1	79-11-30	0945	17040201	110SKRV	--
432803112061001	43 28 03	112 06 10	01	02N 37E 33AAA1	79-12-19	1115	17040201	110SKRV	--
433145111554001	43 31 45	111 55 40	01	02N 38E 01DAC1	79-12-07	1145	17040201	110SKRV	--
433107112011401	43 31 07	112 01 14	01	02N 38E 08CBB1	79-11-30	0915	17040201	110SKRV	--
433029111590201	43 30 29	111 59 02	01	02N 38E 16ADD1	79-12-07	1425	17040201	110SKRV	--
433021112001001	43 30 21	112 00 10	01	02N 38E 16BCC1	79-11-30	0900	17040201	110SKRV	--
432950111591501	43 29 50	111 59 15	01	02N 38E 16DDC1	79-11-30	0850	17040201	110SKRV	--
432838111552001	43 28 38	111 55 20	01	02N 38E 27ACB1	79-12-05	1345	17040201	110SKRV	--
432807112012001	43 28 07	112 01 20	01	02N 38E 29CCC1	79-12-19	0930	17040201	110SKRV	--
433135111541201	43 31 35	111 54 12	01	02N 39E 05CCC1	79-12-07	1200	17040201	110SKRV	--
433733112035301	43 37 33	112 03 53	01	03N 37E 02AAA1	79-11-09	0830	17040201	110SKRV	--
433402112060701	43 34 02	112 06 07	01	03N 37E 27BBB1	79-12-18	1600	17040201	110SKRV	--
433457111583701	43 34 57	111 58 37	01	03N 38E 22BAB1	79-12-07	1030	17040201	110SKRV	--
433233111574301	43 32 33	111 57 43	01	03N 38E 35CCB1	79-12-05	1445	17040201	110SKRV	--
433536111550501	43 35 36	111 55 05	01	03N 39E 18BDB1	79-11-28	0930	17040201	110SKRV	--
				CLARK					
440142112425501	44 01 42	112 42 55	01	08N 31E 14AAA1	79-10-24	1015	17040216	110ALVM	--
440847112303501	44 08 47	112 30 35	01	10N 34E 31CCD1	79-10-24	1100	17040215	110SDMS	--
				FREMONT					
435811111425901	43 58 11	111 42 59	01	07N 40E 02BBB1	79-11-07	1140	17040203	110SKRV	138.97
435736111441301	43 57 36	111 44 13	01	07N 40E 03CBC1	79-11-28	1345	17040203	110SKRV	62.97
435755111453501	43 57 55	111 45 35	01	07N 40E 05ADB1	79-11-28	1300	17040203	110SKRV	--
435444111414001	43 54 44	111 41 40	01	07N 40E 25BBB1	79-11-28	1410	17040203	110SKRV	--
435904111373101	43 59 04	111 37 31	01	08N 41E 33ABB1	79-11-08	1600	17040203	110SKRV	49.42
440322111293101	44 03 22	111 29 31	01	08N 42E 03BAB1	79-11-08	1430	17040203	112FLRV	1.48
440457111211501	44 04 57	111 21 15	01	09N 43E 26BBC1	79-11-08	1115	17040203	112FLRV	--
440414111245201	44 04 14	111 24 52	01	09N 43E 32BBB1	79-11-08	1245	17040202	112FLRV	16.13
442941111191601	44 29 41	111 19 16	01	14N 43E 36DBA1	79-10-10	1230	17040202	112LVCK	41.26
				JEFFERSON					
433852112165201	43 38 52	112 16 52	01	04N 36E 30CBB1	79-11-02	1145	17040201	110SKRV	--
433924112062801	43 39 24	112 06 28	01	04N 37E 21DCD1	79-11-02	1415	17040201	110SKRV	--
434000112053301	43 40 00	112 05 33	01	04N 37E 22BAD1	79-11-09	0915	17040201	110SKRV	--
434104112015301	43 41 04	112 01 53	01	04N 38E 07DCC1	79-12-18	1245	17040201	110SKRV	110.00
433844111553401	43 38 44	111 55 34	01	04N 38E 25DAC1	79-11-07	0800	17040201	110SDMS	32.58
433828112012501	43 38 28	112 01 25	01	04N 38E 30DDD1	79-12-18	1415	17040201	110SKRV	--
434152111541501	43 41 52	111 54 15	01	04N 39E 07AAA1	79-11-08	0845	17040201	110ALVM	10.42
434025111545801	43 40 25	111 54 58	01	04N 39E 18CDA1	79-12-06	1045	17040201	110SDMS	--
433835111484301	43 38 35	111 48 43	01	04N 39E 25DAB1	79-12-06	1015	17040201	110ALVM	--
433754111461901	43 37 54	111 46 19	01	04N 40E 32DBD1	79-12-06	0930	17040201	110SDMS	--
433845111374501	43 38 45	111 37 45	01	04N 41E 28DAC1	79-12-16	1000	17040201	211WAYN	280.87

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	DATE OF SAMPLE	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH FIELD (UNITS)	TEMPERATURE, WATER (DEG C)	COLIFORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
					BONNEVILLE						
432623112031001	79-12-07	--	4673.00	611	7.5	12.0	<1	<1	270	0	72
433013112034401	79-11-30	1910	4760.00	308	7.7	10.0	--	--	200	20	55
433014112085501	79-12-07	235	4745.00	590	7.6	11.0	<1	<1	270	49	65
432929112023501	79-11-30	378	4705.00	581	7.6	10.0	--	--	260	14	72
432803112061001	79-12-19	180	4690.00	583	7.6	10.5	<1	<1	260	0	71
433145111554001	79-12-07	165	4785.00	599	7.7	12.0	<1	<1	240	10	64
433107112011401	79-11-30	415	4730.00	545	7.8	10.0	--	--	250	20	69
433029111590201	79-12-07	225	4738.00	590	7.5	8.0	<1	<1	250	20	67
433021112001001	79-11-30	412	4730.00	579	7.9	11.0	--	--	240	39	66
432950111591501	79-11-30	387	4733.00	579	8.0	13.0	--	--	240	2	65
432838111582001	79-12-05	365	4720.00	621	7.6	12.0	--	--	260	22	69
432807112012001	79-12-19	225	4707.00	572	7.6	11.0	<1	<1	260	6	70
433135111541201	79-12-07	365	4910.00	598	7.8	13.0	<1	<1	240	2	64
433733112035301	79-11-09	165	4760.00	453	7.5	12.0	--	--	220	32	64
433402112060701	79-12-18	203	4788.00	512	7.6	11.0	<1	<1	230	9	61
433457111583701	79-12-07	155	4790.00	531	7.2	10.5	<1	<1	240	43	67
433233111574301	79-12-05	181	4785.00	614	7.6	14.0	<1	<1	280	17	79
433536111550501	79-11-28	200	4840.00	518	7.9	9.5	<1	<1	240	10	68
					CLARK						
440142112425501	79-10-24	540	5110.00	477	7.8	11.0	--	--	230	41	53
440847112303501	79-10-24	189	4917.00	475	7.9	11.0	--	--	210	13	61
					FREMONT						
435811111425901	79-11-07	224	4948.50	256	7.6	12.0	<1	<1	110	0	30
435736111441301	79-11-28	87	4935.00	211	7.9	11.5	<1	<1	83	0	23
435755111453501	79-11-28	135	4935.00	194	7.7	10.5	<1	<1	65	0	18
435444111414601	79-11-28	E90	4930.00	221	7.4	10.5	<1	<1	76	0	22
435904111373101	79-11-08	E200	5010.00	223	7.0	11.5	--	<1	81	0	21
440322111293101	79-11-08	82	5189.00	340	7.6	10.0	--	--	140	0	36
440457111211501	79-11-08	400	5592.00	434	7.8	9.0	<1	<1	230	9	57
440414111245201	79-11-08	60	5294.00	425	7.3	2.5	--	--	190	0	55
442941111191601	79-10-10	--	6422.00	105	7.0	7.0	K19	K6	35	0	9.7
					JEFFERSON						
433852112165201	79-11-02	--	4945.00	521	7.9	10.0	<1	<1	240	19	66
433924112062801	79-11-02	--	4770.00	526	7.6	10.5	<1	<1	240	10	67
434000112053301	79-11-09	806	4770.00	443	7.3	9.5	--	--	200	36	54
434104112015301	79-12-18	140	4790.00	521	7.5	8.0	<1	<1	240	43	69
433844111553401	79-11-07	120	4847.00	482	7.5	9.0	<1	<1	190	0	53
433828112012501	79-12-18	E184	4782.00	466	7.5	11.5	<1	<1	210	16	60
434152111541501	79-11-08	102	4850.00	391	7.7	10.0	<1	<1	230	66	63
434025111545801	79-12-06	175	4850.00	451	7.7	11.0	<1	<1	230	33	66
433835111484301	79-12-06	90	4932.00	440	7.7	14.5	<1	<1	210	30	59
433754111461901	79-12-06	E120	4963.00	550	7.5	10.5	<1	<1	240	60	68
433845111374501	79-12-18	435	5805.00	327	7.9	4.5	<1	<1	160	0	39

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	DATE OF SAMPLE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
					BONNEVILLE						
432623112031001	79-12-07	23	17	17	.4	4.4	340	0	279	17	37
433013112034401	79-11-30	16	19	23	.6	3.9	220	0	180	7.0	44
433014112085501	79-12-07	25	20	14	.5	3.7	270	0	221	11	54
432929112023501	79-11-30	19	18	13	.5	3.3	300	0	245	12	42
432803112061001	79-12-19	21	20	19	.5	3.8	320	0	262	13	41
433145111554001	79-12-07	19	29	28	.8	4.5	280	0	230	8.9	40
433107112011401	79-11-30	18	14	11	.4	3.1	280	0	230	7.1	43
433029111590201	79-12-07	19	24	17	.7	4.1	280	0	230	14	42
433021112001001	79-11-30	18	21	16	.6	3.7	290	0	238	5.8	42
432950111591501	79-11-30	19	23	23	.6	4.1	290	0	238	4.6	42
432838111582001	79-12-05	21	26	18	.7	4.6	290	0	238	12	42
432807112012001	79-12-19	20	24	23	.7	4.0	310	0	254	12	42
433135111541201	79-12-07	19	30	21	.8	4.4	290	0	238	7.4	40
433733112035301	79-11-09	15	11	13	.3	2.8	--	--	190	--	40
433402112060701	79-12-18	19	17	19	.5	3.9	270	0	221	11	45
433457111583701	79-12-07	17	12	13	.3	5.6	240	0	197	24	44
433233111574301	79-12-05	21	19	17	.5	3.5	320	0	262	13	39
433536111550501	79-11-28	18	9.9	11	.3	3.1	280	0	230	5.6	39
					CLARK						
440142112425501	79-10-24	23	13	11	.4	2.5	230	0	189	5.8	34
440847112303501	79-10-24	15	14	12	.4	3.4	240	0	197	4.8	40
					FREMONT						
435811111425901	79-11-07	8.1	15	29	.6	3.0	150	0	123	6.0	10
435736111441301	79-11-28	6.3	11	28	.5	3.0	110	0	90	2.2	6.2
435755111453501	79-11-28	4.9	12	35	.6	3.0	98	0	80	3.1	5.5
435444111414601	79-11-28	5.2	12	25	.6	2.4	110	0	90	7.0	3.8
435904111373101	79-11-08	7.0	15	37	.7	2.9	130	0	107	21	3.4
440322111293101	79-11-08	12	17	28	.6	2.7	180	0	148	7.2	8.6
440457111211501	79-11-08	21	7.5	10	.2	1.5	270	0	221	6.8	10
440414111245201	79-11-08	13	17	21	.5	4.0	240	0	197	19	10
442941111191601	79-10-10	2.5	6.2	33	.5	2.3	59	0	48	9.4	.0
					JEFFERSON						
433852112165201	79-11-02	18	15	12	.4	3.2	270	0	221	5.4	50
433924112062801	79-11-02	17	14	11	.4	3.0	280	0	230	11	49
434000112053301	79-11-09	15	17	21	.5	3.4	200	0	164	16	48
434104112015301	79-12-18	16	13	14	.4	3.2	240	0	197	12	49
433844111553401	79-11-07	14	12	12	.4	2.1	270	0	221	14	49
433828112012501	79-12-18	14	10	9	.3	2.5	237	0	194	12	42
434152111541501	79-11-08	18	10	8	.3	3.8	200	0	164	6.4	45
34025111545801	79-12-06	16	9.4	8	.3	2.6	240	0	197	7.7	42
433835111484301	79-12-06	15	9.0	12	.3	2.6	220	0	180	7.0	38
433754111461901	79-12-06	17	19	19	.5	3.3	220	0	180	11	67
433845111374501	79-12-18	15	6.7	13	.2	1.8	200	0	164	4.0	5.4

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	DATE OF SAMPLE	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)
BONNEVILLE									
432623112031001	79-12-07	10	.2	28	372	.49	2.8	.010	<10
433013112034401	79-11-30	16	.2	20	290	.39	1.3	.010	<10
433014112085501	79-12-07	24	.3	23	356	.47	1.8	.010	10
432929112023501	79-11-30	14	.2	23	349	.44	2.1	.010	<10
432803112061001	79-12-19	19	.3	25	368	.49	2.1	.010	<10
433145111554001	79-12-07	27	.2	25	353	.47	1.5	.010	10
433107112011401	79-11-30	10	.2	21	325	.41	1.9	.010	<10
433029111590201	79-12-07	21	.2	25	349	.45	2.0	.010	<10
433021112001001	79-11-30	16	.2	23	319	.43	2.0	.010	<10
432950111591501	79-11-30	19	.2	24	348	.46	2.0	.010	<10
432838111582001	79-12-05	24	.2	30	369	.48	2.0	.010	30
432807112012001	79-12-19	23	.3	25	370	.49	2.0	.070	20
433135111541201	79-12-07	27	.2	25	359	.44	1.5	.010	10
433733112035301	79-11-09	9.3	.4	16	278	.38	1.2	.020	<10
433402112060701	79-12-18	15	.4	19	320	.43	1.4	.010	10
433457111583701	79-12-07	13	.2	22	313	.43	3.2	.030	<10
433233111574301	79-12-05	14	.2	24	366	.49	2.0	.010	20
433536111550501	79-11-28	9.7	.2	19	312	.40	1.7	.010	<10
CLARK									
440142112425501	79-10-24	21	1.3	44	349	.47	10	.010	<10
440847112303501	79-10-24	14	.4	35	305	.41	1.1	.010	<10
FREMONT									
435811111425901	79-11-07	5.4	1.4	36	189	.25	1.4	.030	<10
435736111441301	79-11-28	3.7	1.4	42	157	.22	1.5	.030	<10
435755111453501	79-11-28	5.3	1.0	41	145	.19	1.3	.030	10
435444111414601	79-11-28	4.7	1.1	33	147	.20	2.0	.020	90
435904111373101	79-11-08	6.1	1.8	40	165	.22	.88	.030	<10
440322111293101	79-11-08	8.8	1.3	45	238	.33	4.0	.040	<10
440457111211501	79-11-08	3.9	.3	38	294	.40	5.0	.050	<10
440414111245201	79-11-08	9.2	1.0	44	294	.39	5.0	.030	<10
442941111191601	79-10-10	1.5	1.1	34	89	.12	.49	.000	20
JEFFERSON									
433852112165201	79-11-02	18	.5	25	334	.44	1.3	.010	<10
433924112062801	79-11-02	15	.4	21	331	.43	1.4	.010	<10
434000112053301	79-11-09	13	.7	25	277	.38	.54	.010	<10
434104112015301	79-12-18	15	.4	22	311	.43	1.2	.010	20
433844111553401	79-11-07	10	.5	9.7	285	.37	.40	.010	<10
433828112012501	79-12-18	9.3	.3	15	274	.37	.84	--	<10
434152111541501	79-11-08	11	.5	17	281	.38	3.3	.000	<10
434025111545801	79-12-06	9.8	.3	14	283	.35	1.1	.010	50
433835111484301	79-12-06	7.9	.4	16	262	.35	1.2	.010	60
433754111461901	79-12-06	26	.3	14	327	.44	.42	.010	10
433845111374501	79-12-18	3.6	.3	35	207	.29	.34	.050	<10

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	HYDRO-LOGIC UNIT CODE	GEO-LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
				JEFFERSON					
434622112083001	43 46 22	112 08 30	01	05N 37E 08CCC1	79-10-31	1015	17040201	110SKRV	--
434259112092401	43 42 59	112 09 24	01	05N 37E 31CDB1	79-11-01	1015	17040201	110SKRV	40.29
434259112073301	43 42 59	112 07 33	01	05N 37E 32DDB1	79-12-06	1400	17040201	110ALVM	--
434732111592001	43 47 32	111 59 20	01	05N 38E 04DBA1	79-12-06	1215	17040201	110SDMS	--
434313112012001	43 43 13	112 01 20	01	05N 38E 32CBB1	79-10-31	1315	17040201	110ALVM	--
434324111564201	43 43 24	111 56 42	01	05N 38E 35ADA2	79-10-31	1400	17040201	110SKRV	--
435304112273001	43 53 01	112 27 30	01	06N 34E 04AAA1	79-10-25	1100	17040215	110SKRV	55.89
435304112280801	43 53 04	112 28 08	01	06N 34E 04BAB1	79-10-25	1400	17040215	110SKRV	162.94
435214112294401	43 52 14	112 29 44	01	06N 34E 06DDD1	79-10-25	1500	17040215	110SKRV	--
425120112234301	42 51 20	112 23 43	01	06N 34E 13AAA1	79-10-26	1330	17040215	110SKRV	--
435034112284301	43 50 34	112 28 34	01	06N 34E 17DDC1	79-10-11	1330	17040215	110SKRV	--
435031112182101	43 50 31	112 18 21	01	06N 35E 14CCC1	79-10-26	1000	17040215	110SKRV	142.15
435725112351202	43 57 25	112 35 12	02	07N 33E 09BAA2	79-10-24	1345	17040215	110SKRV	--
435725112320401	43 57 25	112 32 04	01	07N 33E 12BBB1	79-10-24	1500	17040215	110SKRV	62.89
435745112272401	43 57 45	112 27 24	01	07N 34E 04DAD1	79-10-24	1645	17040215	110SKRV	29.04
435312112193301	43 53 12	112 19 33	01	07N 35E 34DCC1	79-10-26	1130	17040214	110SKRV	--
435532112122601	43 55 32	112 12 26	01	07N 36E 22BAD1	79-10-11	1045	17040214	110SKRV	17.71
435825112321101	43 58 25	112 32 11	01	08N 33E 35DDD1	79-10-11	1600	17040215	110SDMS	7.57
				MADISON					
434235111460701	43 42 35	111 46 07	01	04N 40E 05ADB1	79-12-17	1400	17040203	120VLCC	42.93
434649111574601	43 46 49	111 57 46	01	05N 38E 10ADD1	79-12-17	1630	17040203	110SKRV	111.50
434701111533601	43 47 01	111 53 36	01	05N 39E 08ABC1	79-11-29	1530	17040204	110ALVM	6.61
434512111490001	43 45 12	111 49 00	01	05N 39E 24BDA1	79-12-17	1200	17040204	110ALVM	--
434258111465701	43 42 58	111 46 57	01	05N 40E 32CCB1	79-12-05	1230	17040201	110ALVM	--
435000111482201	43 50 00	111 48 22	01	06N 39E 24ACC1	79-11-07	1620	17040204	110ALVM	14.36
435225111443601	43 52 25	111 44 36	01	06N 40E 04DBD1	79-11-28	1430	17040204	110SKRV	--
435115111430201	43 51 15	111 43 02	01	06N 40E 15AAA1	79-11-29	1300	17040204	110ALVM	15.34
435108111460001	43 51 08	111 46 00	01	06N 40E 18AAD1	79-11-29	1430	17040204	110ALVM	13.44
434844111463601	43 48 44	111 46 36	01	06N 40E 29CCC1	79-12-05	1115	17040204	120VLCC	--
434807111463601	43 48 07	111 46 36	01	06N 40E 32CBC1	79-12-05	1110	17040204	120VLCC	--
435002111380801	43 50 02	111 38 08	01	06N 41E 20BCD1	79-11-29	1330	17040204	120VLCC	E224.88
435244111332601	43 52 44	111 33 26	01	06N 42E 06BCB1	79-12-17	0915	17040204	120VLCC	--
435327111533201	43 53 27	111 53 32	01	07N 39E 32CBA1	79-11-29	1030	17040203	110ALVM	22.20
435312111533201	43 53 12	111 53 32	01	07N 39E 32CCA1	79-11-29	1115	17040203	110ALVM	15.23
435341111441101	43 53 41	111 44 11	01	07N 40E 34BBC1	79-11-07	1515	17040204	110ALVM	21.96

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	DATE OF SAMPLE	DEPTH OF WELL, TOTAL (FEET)	ELEV. OF LAND SURFACE DATUM (FT. NGVD)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH FIELD (UNITS)	TEMPER-ATURE, WATER (DEG C)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
JEFFERSON											
434622112083001	79-10-31	E196	4760.00	381	8.0	9.0	--	--	150	0	42
434259112092401	79-11-01	60	4800.00	1855	7.6	8.5	<1	<1	610	220	150
434259112073301	79-12-06	21	4770.00	740	7.3	8.0	<1	<1	330	2	95
434732111592001	79-12-06	70	4820.00	453	9.3	15.0	--	--	59	0	12
434313112012001	79-10-31	--	4790.00	475	--	14.0	<1	<1	230	47	66
434324111564201	79-10-31	100	4820.00	513	--	10.0	<1	<1	240	26	60
435304112273001	79-10-25	420	4780.00	244	9.4	10.0	--	--	4	0	1.0
435304112280801	79-10-25	370	4783.00	345	7.9	10.5	K210	<1	130	0	35
435214112294401	79-10-25	170	4785.00	1300	7.7	12.0	--	--	560	360	140
425120112234301	79-10-26	175	4782.00	349	7.9	11.5	--	--	140	1	33
435034112284301	79-10-11	330	4785.00	272	8.6	13.0	25	K3	50	0	12
435031112182101	79-10-26	250	4790.00	612	8.0	10.5	--	--	230	0	66
435725112351202	79-10-24	167	4791.00	929	7.5	10.0	<1	<1	320	0	86
435725112320401	79-10-24	395	4787.00	318	8.2	10.5	--	--	98	0	24
435745112272401	79-10-24	71	4794.00	271	7.9	12.0	--	--	110	98	27
435312112193301	79-10-26	240	4785.00	227	8.0	11.5	--	--	91	0	24
435532112122601	79-10-11	--	4800.00	264	8.1	13.5	<1	K1	120	2	36
435825112321101	79-10-11	--	4789.00	310	8.2	11.5	<1	<1	92	0	21
MADISON											
434235111460701	79-12-17	96	4927.00	567	7.3	9.0	<1	<1	270	32	75
434649111574601	79-12-17	E165	4900.00	1360	8.1	17.0	<1	<1	460	120	84
434701111533601	79-11-29	35	4820.00	517	7.5	10.5	<1	<1	230	25	68
434512111490001	79-12-17	60	4874.00	550	7.5	9.0	<1	<1	260	14	75
434258111465701	79-12-05	82	4915.00	510	7.8	12.0	--	--	240	27	69
435000111482201	79-11-07	96	4852.00	341	7.8	10.0	<1	<1	190	18	51
435225111443601	79-11-28	183	4897.00	444	7.8	10.5	<1	<1	210	5	57
435115111430201	79-11-29	55	4900.00	294	7.8	9.0	<1	<1	130	0	37
435108111460001	79-11-29	63	4870.00	379	7.6	9.0	<1	<1	180	16	50
434844111463601	79-12-05	305	5070.00	389	8.1	14.0	--	--	170	6	44
434807111463601	79-12-05	388	5155.00	357	8.2	15.0	--	--	140	1	35
435002111380801	79-11-29	650	5116.00	313	7.7	8.5	<1	<1	110	0	29
435244111332601	79-12-17	500	5290.00	376	7.5	22.0	<1	<1	100	0	27
435327111533201	79-11-29	159	4845.00	231	7.3	9.0	<1	<1	74	0	19
435312111533201	79-11-29	55	4845.00	332	7.8	9.5	<1	<1	110	0	33
435341111441101	79-11-07	90	4905.00	302	8.0	11.5	<1	<1	150	0	41

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	DATE OF SAMPLE	MAGNESIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM PERCENT	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)
					JEFFERSON						
434622112083001	79-10-31	11	18	20	.6	5.2	--	--	150	--	32
434259112092401	79-11-01	57	200	41	3.5	7.3	480	0	394	19	420
434259112073301	79-12-06	23	33	23	.8	4.0	400	0	328	32	53
434732111592001	79-12-06	7.0	81	74	4.6	3.4	--	--	180	--	30
434313112012001	79-10-31	15	12	10	.3	2.7	--	--	180	--	47
434324111564201	79-10-31	21	17	13	.5	3.1	--	--	210	--	45
435304112273001	79-10-25	.3	56	96	13	1.6	250	29	253	.2	12
435304112280801	79-10-25	11	18	30	.7	2.7	200	0	164	4.0	3.5
435214112294401	79-10-25	50	45	15	.8	3.3	240	0	197	7.7	94
425120112234301	79-10-26	13	19	23	.7	3.5	170	0	139	3.4	13
435034112284301	79-10-11	4.8	38	69	2.3	5.5	150	7	135	.7	6.2
435031112182101	79-10-26	17	41	34	1.2	4.3	--	--	280	--	25
435725112351202	79-10-24	25	74	33	1.8	5.7	410	0	336	21	71
435725112320401	79-10-24	9.3	27	47	1.2	4.4	180	0	148	1.8	18
435745112272401	79-10-24	9.4	14	30	.6	2.3	14	0	12	.3	7.8
435312112193301	79-10-26	7.5	11	28	.5	2.4	120	0	98	1.9	6.5
435532112122601	79-10-11	7.8	14	19	.6	3.1	--	--	120	--	6.0
435825112321101	79-10-11	9.6	29	52	1.3	4.2	190	0	156	1.9	9.9
					MADISON						
434235111460701	79-12-17	20	12	12	.3	3.5	290	0	238	23	46
434649111574601	79-12-17	61	110	34	2.2	6.7	420	0	344	5.3	170
434701111533601	79-11-29	15	12	13	.3	2.5	250	0	205	13	46
434512111490001	79-12-17	17	12	12	.3	3.0	300	0	246	15	46
434258111465701	79-12-05	17	10	11	.3	3.0	260	0	213	6.6	40
435000111482201	79-11-07	14	4.5	7	.1	1.6	210	0	172	5.3	10
435225111443601	79-11-28	16	6.8	7	.2	2.0	250	0	205	6.3	11
435115111430201	79-11-29	10	3.9	8	.1	1.2	170	0	139	4.3	8.0
435106111460001	79-11-29	14	4.1	7	.1	1.9	200	0	164	8.0	17
434844111463601	79-12-05	14	17	25	.6	3.1	200	0	164	2.5	13
434807111463601	79-12-05	12	19	31	.7	3.5	170	0	139	1.7	13
35002111380801	79-11-29	8.4	17	33	.7	3.1	150	0	123	4.8	13
5244111332601	79-12-17	7.8	38	53	1.7	4.7	180	0	148	9.1	23
327111533201	79-11-29	6.5	12	33	.6	3.6	110	0	90	8.8	10
35312111533201	79-11-29	7.8	15	21	.6	8.2	160	0	131	4.1	8.2
341111441101	79-11-07	11	6.2	11	.2	1.6	190	0	156	3.0	8.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

STATION NUMBER	DATE OF SAMPLE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, DIS-SOLVED (UG/L AS FE)
				JEFFERSON					
434622112083001	79-10-31	12	1.2	43	255	.35	.03	.050	340
434259112092401	79-11-01	180	1.7	46	1310	1.75	2.3	.080	<10
434259112073301	79-12-06	18	1.1	37	461	.61	.05	.020	30
434732111592001	79-12-06	14	1.2	17	277	.38	.74	.150	30
434313112012001	79-10-31	14	.4	14	282	.38	.59	.010	<10
434324111564201	79-10-31	9.9	.4	15	303	.41	1.2	.060	<10
435304112273001	79-10-25	5.2	.5	36	266	.24	.18	.000	160
435304112280801	79-10-25	12	.7	43	225	.30	.08	.060	20
435214112294401	79-10-25	230	.2	31	774	1.05	14	.010	10
425120112234301	79-10-26	22	.4	33	261	.35	9.1	.020	20
435034112284301	79-10-11	7.1	.6	25	181	.24	.10	.000	30
435031112182101	79-10-26	22	.2	25	378	.51	2.0	.020	<10
435725112351202	79-10-24	65	.2	35	577	.78	3.0	.010	<10
435725112320401	79-10-24	8.9	.8	45	228	.30	.24	.020	80
435745112272401	79-10-24	8.2	.4	36	115	.25	.73	.010	<10
435312112193301	79-10-26	5.8	.5	33	152	.21	.54	.010	10
435532112122601	79-10-11	7.6	.9	35	187	.25	1.1	.010	20
435825112321101	79-10-11	8.9	.8	37	215	.28	.22	.180	<10
				MADISON					
434235111460701	79-12-17	15	.4	19	348	.47	3.1	.010	30
434649111574601	79-12-17	110	.8	12	859	1.15	22	.070	20
434701111533601	79-11-29	11	.3	14	296	.39	1.0	.000	<10
434512111490001	79-12-17	14	.4	17	338	.45	1.4	.000	<10
434258111465701	79-12-05	9.0	.4	19	303	.41	1.6	.010	10
435000111482201	79-11-07	3.9	.2	20	209	.29	.12	.010	100
435225111443601	79-11-28	3.2	.1	22	251	.35	2.3	.010	<10
435115111430201	79-11-29	2.6	.1	17	167	.22	.69	.010	<10
435108111460001	79-11-29	2.6	.2	26	227	.31	2.9	.020	<10
434844111463601	79-12-05	11	.9	37	243	.33	1.0	.010	<10
434807111463601	79-12-05	12	1.0	43	227	.31	1.1	.010	10
435002111380801	79-11-29	10	1.5	46	204	.27	.40	.010	<10
435244111332601	79-12-17	14	2.8	59	268	.36	.78	.000	30
435327111533201	79-11-29	4.4	1.4	37	157	.21	2.1	.010	40
435312111533201	79-11-29	6.8	1.2	41	213	.29	3.0	.090	<10
435341111441101	79-11-07	3.1	.8	19	185	.25	.03	.010	<10

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October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons